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THE  
AMERICAN CYCLOPÆDIA.

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A

GENERAL AND ANALYTICAL

I N D E X

TO THE

AMERICAN CYCLOPÆDIA.

BY

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ASSISTED BY HIS DAUGHTER,

BLANDINA CONANT.

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## TO THE READER.

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THE Index should be first consulted when information is sought on any subject. The inquirer will thus find whether what he seeks is contained in some leading article, or in several scattered through different volumes, or is incidentally given in connection with another subject.

The plan of the Index is as follows :

All names of persons or objects in connection with which any information is given, and would naturally be sought in that connection, are entered alphabetically, the titles of leading articles being distinguished by SMALL CAPITALS, and other entries by *italics*.

Of articles of much length the leading divisions are entered, to facilitate reference.

When there are two or more names, or more than one mode of spelling the name, of the same person or object, each is entered in its alphabetical order.

All pictorial representations of objects described are entered by name in their proper connection, with the abbreviation (ill.) or (view) annexed. They are also entered separately, where this is deemed necessary or convenient for ready reference.

In the references to the Cyclopædia, the first numeral (Roman) refers to the volume, the second and third (Arabic) respectively to the page and column, and the letters, a, b, c, to the first, second, or third part of the column. E. g.: "*Cotton-wood*, tree, XIII. 711, 2 c (ill.)," means that what is said of it may be found, with an illustration, in the 13th volume, page 711, lower third of the 2d column.

The space at or near the meeting of two divisions is denoted by two letters combined (ab, or bc), and a special reference to two or more by the separate letters ; as, "*Myrtus communis* (botany), XII. 112, 1 bc (ill.) ;" "*Sheikh* [shaikh], Bedouin chief, II. 450, 2 b, c ;" "*Pomfret*, *countess dowager of*, contributions to the Arundelian marbles, I. 798, 2 a, b, c."\*

When, in a series of entries from different articles under one title, the number of the volume is omitted, the reference is to the one last given.

\* In the multitude of such references there may be some few errors. The reader will please look for the reference in the other column, or another part of the column, if not found in the one given.

The pronunciation of foreign proper names, and of other words which seem to require it, has been added in brackets by Mr. Francis A. Teall, whose system of notation is subjoined. The work has passed through the press under his supervision ; and to his familiarity with the contents of the Cyclopædia, his ready memory, and excellent judgment, it is greatly indebted for its accuracy and completeness.

The Index has also to some extent been made a supplement to the Cyclopædia by additional information parenthetically inserted. Thus, where a person noticed in it has died since its close, the year of his death is generally noted. Where one has attained to higher office, or met with any great change of fortune, that fact is usually indicated. In many instances persons of some prominence are only incidentally mentioned in the Cyclopædia, in connection with the topics with which their names are associated. Generally, where biographical notices of such persons could be found, the briefest possible statement of the leading facts has been inserted ; often the dates of birth and death alone are given, where nothing more appeared to be essential.

Occasionally a discrepancy will be observed between an entry in the Index and the place referred to in the Cyclopædia. In such case the former is to be understood as a correction. The innumerable causes and sources of error, familiar to all who have had to do with so immense an undertaking as the construction of a cyclopædia, make it impossible that some should not escape detection in its progress. They will generally be found trifling in form, though sometimes large in effect, such as the accidental change of a single letter converting one word into another.

The collating from different articles of passages relating to the same topic has in a few instances prominently disclosed another source of discrepancies which, unexplained, have the appearance of errors resulting from carelessness. In the article on engraving a celebrated German artist is mentioned as Christian Friedrich von Müller, who in the special article upon his father (Johann Gotthard) and himself is called Johann Friedrich Wilhelm. In seeking an explanation of this, it was found that precisely the same difference exists in the corresponding articles of Meyer's *Konversations-Lexikon*, of later date than the Cyclopædia articles ; while in Pierer's *Universal-Lexikon* he is called "Christian (Joh.) Friedrich Wilhelm." Again, in the article on Agra, it is said that the Taj Mahal was built by Shah Jehan as a mausoleum for himself and his wife Noor Mahal ; while in that on India Nourmahal (the same name in another form) appears as the wife of his father Jehanghir. A search showed that the large universal gazetteers, which the writer of the former article naturally followed, contain the statement there given ; but the writer on India followed more accurate historical authorities. In the Index, under *Noor Mahal*, the true version is succinctly given.

## KEY TO PRONUNCIATION.

1. *ā, ē, ī, ō, ū, ǣ, ǣ, ǣ, ǣ, ǣ, ǣ, ǣ*—the ordinary English long and short sounds of the vowels, as in *mate, mete, mite, mote, mute, bat, bet, bit, bot, but*. Most of these marks are sparingly used, as in general the position of the vowel sufficiently indicates its proper sound.

2. *â*—Italian *a*, as in *far, father*, but frequently shorter.

3. *ö*—German *ö*, occurring also in Hungarian, Swedish, and Danish (*ø*). It represents the diphthong *oe*, and its sound has no equivalent in English. It is an intimate blending of the sounds of *ā* in *mute* or *ē* in *met* and *ǣ* in *but*. Its long and short sounds may be approximately represented thus, the small letter in each case indicating the subordinate element: *g'ǣh'-tēh*, Goethe; *tē'p'-lits*, Töplitz (with which the form Teplitz is interchangeable). The French and Dutch *eu* approaches the sound of *ö*, but is very nearly represented by *ǣ* or *ǣh*.

4. *oo*—representing the *u* of most other languages, the French *ou*, the Dutch *oe*, and the Portuguese and Swedish *o* final—is most commonly short, as in *book*; but in certain positions, easily determined by the ear, as at the end of an accented syllable, it is long, as in *woo*.

5. *ow*—representing *au* in other languages (except French), *ou* in Dutch, *ao* in Portuguese, and approximately *ao* in Spanish and *aou* in French—is pronounced like *ow* in *cow* and *ou* in *out*.

6. *û*—German and Hungarian *ü*, French *u*, and Danish and Swedish *y*. These are usually so nearly alike in sound that they are represented by the same character; there is no corresponding sound in English. The German *û* stands for the diphthong *ue* (formerly *ui*), and its pronunciation is a close union of the sounds of *û* in *mute* and *ī* in *bit* or *ē* in *mete*; thus: *müil'-ler*, Müller; *büē'-lo*, Bülow. It sometimes runs almost wholly into the second element (*ī* or *ē*). The French *u*, however, invariably approaches the sound indicated in the first example; but it is more simple, and may perhaps be said to consist of the first part of the diphthongal sound of the English *û*, as in *mute*—that is, with the sound stopped before the full enunciation of the final *oo* element of that letter.

7. *â<sup>ne</sup>, ǣ<sup>ne</sup>, ö<sup>ne</sup>, ü<sup>ne</sup>, &c.*—French and Portuguese nasal vowels. The <sup>ne</sup> is small to indicate that it represents no actual sound, but simply the mode of uttering the vowel. This may be illustrated by pronouncing *bang, song, rung* without touching the soft palate with the upper part of the tongue, thus producing the nasal effect without the distinct sound of *ng*.

8. *ch*—representing the Spanish *ch*, German *tsch*, Hungarian *cs*, the *cz* of some Slavic languages, the Italian *c* before *e* and *i*, &c.—sounds like *ch* in *church*.

9. *h, h<sup>c</sup>*—German guttural *ch*, Spanish *j* and *g* (before *e* or *i*), and (sometimes) *x*, &c. This sound consists in the pronunciation of *h* in the throat (the organs being nearly closed) as a true consonant rather than as a mere breathing. The roughening or rasping effect thereby produced is indicated by the small <sup>c</sup> and <sup>k</sup>, the former after *ā, c, i, ō, ū, ǣu, eu, l, &c.* (where the sound approaches that of *sh*, but must be carefully distinguished from it by keeping the lower part of the tongue depressed), the latter in an initial syllable or after *a, o, u, au*. In German *g* final is also guttural, but in *burg* and some similar terminal syllables it has been deemed preferable to leave it unmarked.

10. *gh*.—The *h* is added to show that the *g* is hard, as in *get*. In certain cases *h* is omitted, but when used in pronunciation *g* is always hard.

11. *ly, ny, py, &c.*—In these combinations the two letters are to be sounded together in one breath, like *li* in *folio*, *ni* in *union*, &c.

12. *th*—the sharp sound of *th*, as in *thin*, representing the Spanish *c* before *e* or *i*, *z*, &c. (In Spanish America *c* and *z* generally have the sound of sharp *s*.)

13. *th*—the flat sound of *th*, as in *this*, representing the Spanish *d, &c.*

14. *y'*—the liquid element in many French and Hungarian terminal syllables, constituting an indistinct, vanishing sound of *y*, in combination with that of the preceding vowel or consonant.

15. Titles of which the pronunciation is not given are to be pronounced either according

to the marking of a preceding title of the same or similar form, or to the most obvious English analogy.

ACCENTUATION.—Only the primary syllabic accent of words is marked, as, where a secondary accent is required, the ear is nearly always a sufficient guide to its proper position when the former is known. Sometimes the pronunciation of Greek and Latin names and technological terms is indicated by an accent alone. It may be well to remark that in these every vowel or diphthong makes a separate syllable; as *Hyllob'ates* (hī-lob'-a-teez). In French words and names no accentuation is indicated, since in that language it is not determinate, but depends upon the exigencies of utterance. Thus a word of several syllables, when making part of a sentence, may, under differing circumstances, have each syllable alternately accentuated, or possibly none of them, each being spoken with equal force, and the whole stress of the sentence placed upon the culminating word. When spoken singly, however, or in connection with another language, some accent is inevitable; and this usually falls upon the last syllable when it ends in a consonantal or a strong vowel sound, and is preceded by syllables ending in similar or weaker sounds. In other cases euphony generally requires that the accent shall be placed at one or two (rarely if ever more) removes from the end. But on whichever syllable it falls, all the others must be distinctly (however rapidly) enunciated, the slurring of unemphatic syllables, common in English and other languages of strong accent, being inadmissible in French.

DIVISION INTO SYLLABLES.—In respelling words for pronunciation, deviations from the rules of division in foreign languages have frequently been rendered necessary by the requirements of English analogy.

# GENERAL INDEX

TO

# THE AMERICAN CYCLOPÆDIA.

## A

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Aahmes I. (or Amasis), Egyptian king, I. 386, 2 c.

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AALEN [ä'-len], town, I. 2.

AALI PASHA [ä'-le pâ-shä'], Turkish statesman, I. 2.

AALST [älst]: see AELST.

AALTEN [äl'-ten], town, I. 2.

AAR, or Aare [är, ä'-rēh], river, I. 2.

AARAU [ä'-row], town, I. 2; peace of, *ib.*

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AARD-WOLF [ard'-woolf], animal, I. 3 (ill.).

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AARGAU [ar'-gow], canton, I. 3.

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- ABBAS MIRZA [meer'-za], Persian prince and warrior, I. 6.
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- Abbaye aux femmes* [o fäm], church, now church of Saint Trinité, III. 539, 2 c.
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*ANKLAM* [än'-klām], town, I. 528.

*Ankudinoff*, pretender to the Russian crown, I. 293, 2 c.

*ANKWITZ*, Mikolaj, count [änk'-vitz], Polish politician, I. 528.

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*Anlândia* [än'-len-doong]: see *ALLUVIUM*, I. 339, 1 a.

*Anna and Dido*, names under which *Astarte* was worshipped at Carthage, XII. 118, 1 b.

*ANNABERO* [än'-na-bärg], town of Saxony, I. 528.

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*ANNE BOLEYN*, Bullen, or Bouleyne, queen [ann bool'-en], I. 532; VIII. 650, 2 ab.

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*ANNE OF BRIT'ANY*, queen of France, I. 533.

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*ANNIUS OF VITERBO*, Italian Dominican, I. 534.

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*Anno Domini*, introduction of it as an era in chronology, IV. 558, 1 c.

*Annona'ria commo'da*, stipends of the archiatri, I. 650, 1 c.

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*Annulus*, seal, XIV. 735, 1 a.

*Annulus pastora'lis*, bishop's finger ring, II. 663, 2 c.

*Annulus pronu'bus*, betrothment ring, II. 597, 2 b.

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"*An over*," in the game of cricket, V. 482, 2 b.

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- Aqua Panno'niæ*, II. 210, 2 c (BADEN).
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- Aqua Solis*, II. 388, 1 a (BATH).
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- Aquatint engraving*, VI. 653, 1 bc.
- AQUA TOFANA [â'-kwa to-fâ'-na], poison, I. 608. Alluded to, III. 290, 2 a.
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*Arachnoid* (of the brain), III. 188, 1 c; I. 462, 1 c.

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*A'rad* (botany), X. 266, 2 c.

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ARANY, János [or'-ōny'], Hungarian poet, I. 632.

*Āranyaka*, Hindoo religious work, IX. 222, 2 b; 227, 1 c.

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*Arapiles* [ā-ra-pē'-lace], hero of the, IV. 647, 1 a.

*Arapon'ga*, bird, XVI. 109, 2 c.

*A'rar*: see SAÔNE.

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ARAS [ā-rās']: see ARAXES.

*Arateia* [ār-a-tē'-ya], festival games, I. 634, 1 ab.

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*Araucana*, *La* [lá ā-row-kā'-na], Spanish epic, VI. 705, 1 c.

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AR'BALAST, or Crossbow: see ARCHERY, I. 649, 1 b (ill.).

ARBE'LA, village, I. 635. Battle of, 2 a; 276, 2 bc; IV. 142, 1 a.

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- Arbor**, of wheel, XVI. 591, 1 b. In the machinery of a clock or watch, IV. 699, 2 c.
- AR'BOR VITÆ**, tree, I. 638 (ill.).
- Arbor vitæ**, of the cerebellum, III. 190, 1 a.
- ARBRISSEL**, Robert of, founder of the order of Fontevrault, I. 638.
- AR'BROATH**, Aberbrothwick [ab-er-broth'-ik], or Aberbroth'ock, municipal burgh, I. 638.
- AR'BUTHNOT**, John, physician and writer, I. 638.
- Arbutnot**, British subject, tried and executed by order of Andrew Jackson, IX. 491, 1 c.
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- ARC**, portion of a curved line, I. 640.
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- ARCACHON** [ar-kā-shō<sup>ne</sup>], village, I. 640.
- ARCA'DIA**, in Greece, I. 640.
- Arcadian stag**, capture of the, VIII. 679, 1 c.
- ARCADIUS**, emperor, I. 641.
- Ar'canite**: see **POTASSIUM**, XIII. 761, 1 c.
- Arca'num**, celebrated villa, I. 763, 1 c (ARPINO).
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- Arcella**: see **PROTOZOA**, XIV. 36, 2 ab.
- Arcelli'na**, animalcules, I. 515, 1 b.
- ARCESILAUS** [ar-ses-e-lā'-us], philosopher, I. 641.
- Arceutho'bium** (botany), XI. 676, 1 c. A. oxycedri, *ib.* A. campylopodium, 2 a.
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- Archænae'tidæ**, Cimmerian dynasty, III. 113, 1 c.
- ARCHÆOLOGY** [ar-ke-ol'-o-je], I. 642. Three-fold division of the primeval period of man, 1 c. Stone age, *ib.*; cave period, 2 b; human skeletons, 643, 1 b. Polished-stone or neolithic age, 1 bc. Shell mounds in Denmark, 1 c; in the United States, 2 a. Lake dwellings of Switzerland, 2 b; burial mounds, *ib.*; domestic animals found in them, *ib.*; occupations of man, 2 bc; two human races, *ib.* Bronze age, 2 c, and 644, 2 b; advance in civilization, 1 a; transition period, 1 b; iron age, *ib.*, and 2 b; historic age, *ib.* Lartet's two prehistoric ages, 1 c. Synchronism of different ages, 2 bc.
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- Archæus**, a spiritual essence, VIII. 624, 2 c; XIII. 484, 2 a.
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- ARCHBISH'OP**, I. 646. First formal sanction of, 1 ab; suffragans, 1 b.
- Archconfraternity of the Immaculate Heart of Mary**, XI. 218, 1 b.
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- Archdeus**, in Persian demonology, V. 793, 2 bc.
- ARCHDUKE'**, German title, I. 646.
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- Archego'nia** (botany), VII. 151, 1 ab; X. 542, 1 c; XI. 864, 2 b.
- ARCELAUS** [ar-ke-lā'-us], philosopher, I. 647. King of Macedon, 1 b. General, 1 c. Two kings of Comana, 2 ab. King of Cappadocia, 2 bc. Son of Herod the Great, king, 2 c. Sculptor, 648, 1 a.
- Archenceph'ala**: see **PHILOSOPHICAL ANATOMY**, XIII. 429, 1 a.
- ARCHENHOLZ**, Johann Wilhelm, baron [ar'-hēn-hōlts], author, I. 648.
- ARCH'ER**, county, I. 648.

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*Archés*, triumphal, I. 642, 1 a-c. See ARCH (Index).

ARCHIAS, Aulus Licinius [ar'-ke-as], poet, I. 650.

ARCHIATER [ar-ke-ā'-ter], medical title, I. 650. Salaried civil officer, required to attend the poor gratuitously, 1 bc; XI. 348, 1 a.

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*Archibald Bell-the-Cat*, VI. 223, 2 bc.

*Archibuteo* [ar-ke-bu'-te-o], (ornithology), III. 506, 2 b. A. lagopus, *ib.* A. Sancti Johannis, 507, 1 a (ill., 506, 2 c).

*Archida'mia*: see AGIS, king of Sparta, I. 187, 2 c.

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ARCHIL [ar'-kil], or Orchil, plant, I. 650. Discovery of, VI. 339, 1 b.

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ARCHIMANDRITE [ar-ke-man'-drite], in the Greek church, I. 651. See EXARCH.

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ARCHIPELAGO [ar-ke-pel'-a-go], Greek, I. 652. Indian, 2 b. See MEDITERRANEAN SEA, and INDIAN ARCHIPELAGO.

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ARCHON [ar'-kon], of Athens, I. 666: see GREECE, VIII. 188, 2 c. Decennial, I. 666, 2 b; II. 54, 2 c.

*Archonts*, XI. 359, 2 bc (MEGASTHENES).

ARCHYTAS OF TAR'ENTUM [ar-ki'-tas], philoso-pher, I. 667.

ARCIS-SUR-AUBE [ar-sē-sūr-obe], town, I. 667.

*Arco della pace* [pá'-chā], XI. 531, 2 c (MILAN).

ARCOLE [ar-ko'-lā], village, and battle of, I. 667.

ARCOS DE LA FRONTERA [ar'-koce dā lá frone-tā'-ra], town of Spain, I. 667.

ARCOT', district of the Carnatic, I. 667. Cap-ital town, 2 a. Capture of by the English, IV. 693, 1 ab. Siege and assault by Chunda Sabib, 1 bc.

*Aretia* [ark'-te-a], (entomology), species of, XI. 868, 1 c. A. acraea, 2 a (ill.).

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*Arctic expeditions*: see ARCTIC DISCOVERY; BARENTZ, Willem; BILLINGS, Joseph; BUCHAN, David; HAYES, Isaac Israel; KOLDEWEY, Karl; WRANGELL, Ferdinand.

*Arctic ocean*: see POLAR SEAS, XIII. 653, 1 c. *Arctocephalus Falklandicus* (zoölogy), XIV. 734, 2 b.

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*Arctos*, constellation, III. 621, 2 c.

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ARQUEIL [ar-kühy'], village, I. 681.

*Arctus senilis*: see HEART, Diseases of the, VIII. 565, 1 c.

ARCY, Grotto of, I. 681.

*Arcyria*, fungi, VII. 533, 2 a.

ARDAHIL [ar-da-beel'], Ardebil, or Erdebil, town, I. 681.

*Ardea* (ornithology), II. 670, 1 b (BITTERN); *A. minor*, 2 a; *A. (butorides) virescens*, 2 ab (ill.). VI. 453, 1 c (EGRET); *A. (herodias) egretta*, *ib.* (ill.); *A. alba*, 2 c (ill., 454); *A. garzetta*, 454, 1 b (ill.); *A. Coromanda*, 1 c; *A. rufa*, 2 a (ill.). VIII. 689, 2 a (HERON); *A. cinerea*, 690, 1 a (ill., 689); *A. purpurea*, 1 bc; *A. Ludoviciana*, 1 c (ill.); *A. herodias*, 2 c (ill.); *A. occidentalis*, 691, 2 a (ill.); *A. cœrulea*, 2 b.

*Ardebil*: see ARDABIL.

ARDÈCHE [ar-daish], department of France, I. 681.

*Ardeidae* (ornithology), II. 670, 1 b.

ARDENNES [ar-dën], department of France, I. 681.

ARDESHIR [ar-dëb-sheer'], Ardshir, or Artaxerxes, Babegan, founder of the Sassanide dynasty, I. 681; 773, 2 a.

*Ardeotis exilis* (ornithology), II. 670, 1 ab (ill., 671).

ARDITI, Luigi [ar-dë'-te], violinist and composer, I. 681.

*Arelate* [är-e-lä'-te], ancient town, I. 718, 2 a (ARLES); kingdom of, 2 b, and VII. 379, 2 c.

*Ard-righ*, title, III. 263, 2 c.

*Ardshir*: see ARDESHIR.

ARE [äre], French unit of surface, I. 682.

*Areca* [a-rë'-ka], (botany), XIII. 17, 1 c. *A. lutescens*, 16, 2 b (ill., 17). *A. catechu*, 17, 2 a (ill.); II. 593, 1 b. *A. oleracea*, III. 524, 1 c (ill.); XIII. 17, 2 c (*oreodoxa oleracea*).

*Areca island*, XIII. 245, 1 c (PENANG).

*Areca palm*, XIII. 17, 2 a (ill.); II. 593, 1 b.

*Arecinææ* (botany), XIII. 17, 1 c.

*Are'na*, of an amphitheatre, I. 439, 2 c.

*Aren'acum*, I. 757, 1 c (ARNHEM).

ARENDAL [ä'-ren-däl], town of Norway, called "Little Venice," I. 682.

*Arenicola* (entomology), X. 562, 1 c. *A. piscatorum*, 2 a; VI. 218, 1 c.

*Are'ola*: see MAMMARY GLANDS, XI. 83, 1 c; OBSTETRICS, XII. 569, 1 a.

*Areolæ*, of the lungs, X. 721, 1 a.

AREOLAR TISSUE: see CELLULAR TISSUE.

AREOMETER [a-re-om'-e-ter]: see HYDROMETER.

*Areopagites* [a-re-op'-a-jites]: see ILLUMINATI, IX. 193, 1 c.

AREOPAGUS, of Athens, I. 682; II. 59, 2 bc. Council or court of the Areopagus, I. 682, 1 b; II. 55, 1 a and c.

AREQUIPA [ä-rä-kë'-pa], department of Peru, I. 682. Volcano of Misti or Arequipa, 2 a (ill.). Capital town, 2 c.

ARES [ä'-reez]: see MARS.

ARETEUS [är-e-të'-us], physician, I. 683. His theory of insanity, IX. 297, 1 bc.

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ARGENTAN [ar-zhâ<sup>re</sup>-tâ<sup>re</sup>], town of France, I. 685.

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*Argentora'tum*, ancient city, XV. 410, 2 c.

*Argentum*, origin of the name, XV. 47, 2 a.

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ARGÜELLES, Angustin [ar-gwä'-lyace], statesman, I. 697.

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**ARMSTRONG**, John, physician and author, I. 736.

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ARNOLD, Thomas Kerchever, clergyman and author, I. 762.

*Arnoldists*, religious sect, I. 760, 2 c.

*Arnol'di Villa*, I. 757, 2 a (ARNHEM).

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ARNOULD, Sophie [ar-noo], actress, I. 762.

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*Aroe* [â-roo']: see *ARROO*.

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*Ar'pi*, ancient town, VII. 301, 1 a.

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*Arquebuse* [ar'-kwe-bus]: see *Arquebus* (Index).

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*ARRAN*, Isles of, I. 763. Antiquities of, 2 c.

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*AR'AS* [Fr. *â-râs*], city of France, I. 764. Tapestries of, 2 c.

*Arras'tra*, in gold mining, VIII. 84, 1 bc.

*ARRAWAKS'*, or *Loko'no*, a tribe of Guiana, I. 764; XVI. 566, 2 c.

*ARREST'*, in law, I. 764. In civil cases, 2 ab; English law, *ib.*; in the United States, 2 c; persons exempted from, by constitution, 765, 1 ab; rules relating to time and method of, 1 c; release from, 2 a. In criminal cases, 2 ab; power to make arrest, 2 b; nature of, 766, 1 c; degree of force allowed, 2 a; right of search, 2 b.

*Arrêt burlesque* [*â-râ bûr-lesk*], Boileau's satire, II. 578, 1 b (BERNIER).

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*Arrhenathê'rum avena'ceum* (botany), XII. 562, 1 a.

*ARRHIDÆ'US*, Philip, king of Macedon, I. 766.

*AR'IA*, Roman heroine, I. 767.

*ARRIAN* (Flavius Arrianus), philosopher and historian, I. 767.

*Arrière ban* [Fr. *â-re-âir bâ'ne*], II. 263, 1 a (BAN).

*ARRIVABENE*, Giovanni, count [ar-re-va-bâ'-nâ], economist, I. 767.

*ARROO'*, *Arru*, or *Aroe* [*â-roo'*], islands, I. 767.

*Arrow-headed inscriptions*, V. 570, 2 c (CUNEIFORM INSCRIPTIONS).

*Arrowing of sugar cane*, XV. 445, 2 a.

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*Arrowwood*, XVI. 339, 1 c.

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*Arsac'es*, kings of Parthia, XIII. 134, 2 c, ff.

*Arsac'idæ*, Parthian dynasty, XIII. 322, 2 a, 134, 2 c; Armenian, I. 723, 2 c, 724, 1 b.

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*Arsendimethyle*, IX. 733, 2 a (KAKODYLE).

*AR'SENIC*, I. 768. Metallic properties, 1 b;

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*Arsen'ious acid* (white arsenic): see ARSENIO (Index).

*ARSINOË* [ar-sin'-o-e], name of four celebrated women, I. 770.

*ARSINOË*, name of two cities in Egypt, I. 771.

Ancient monastery near one of them, XI. 728, 2 c. Ancient city of Cyprus, VII. 78, 1 b; of Egypt, VII. 102, 2 b.

*Arsinoë*, daughter of Phegeus, I. 263, 2 b.

*Arsin'oïte nome*, ancient Egypt, VII. 102, 2 b.

*Ars Lulliana*, logical machine, X. 713, 1 bc.

*Ars Magna*, Jerome Cardan's: see ALGEBRA, I. 301, 2 c.

*Ars Magna*, Raymond Lully's: see *Ars Lulliana* (Index).

*ARSON*, I. 771. In English law, 1 c; in United States, 2 a.

*ARS-SUR-MOSELLE* [ar-sûr-mo-zêl], town, I. 772.

*Art*, early Christian, XII. 795, 2 bc. Christian, works on: see BOOK, Franz.

*Art, works of*, saved from destruction during the first French revolution, X. 341, 2 b (LENOIR, Alexandre).

*AR'TA*, Turkish town, I. 772. See AMBRACIA.

*ARTABA'NUS*, assassin of Xerxes, I. 772.

*Artabanus I.*, king of Parthia, XIII. 135, 1 b.

A. II., 2 b. A. IV., 136, 2 c.

*ARTABA'ZUS*, two Persian generals, I. 772.

*Artab'ri*, an ancient people, referred to, VII. 566, 1 ab.

*Artac'es*, or *Artaxias*, king of Armenia, I. 723, 2 c.

*ARTAX'ATA*, ancient city, I. 773.

*ARTAXERX'ES*, name of three kings of Persia, I. 773. A. Longimanns, 1 b. A. Mnemon, 1 bc. A. Ochus, 2 a.

*Artax'ias*, king of Armenia, I. 723, 2 c; 773, 1 a.

*Artedi* [ar-tâ'-de], (Peter, 1703-'35), his classification of fishes, IX. 159, 1 bc.

*ARTEMIDORUS* of *EPHEBUS*, geographer, I. 773.

*AR'TEMIS*: see DIANA.

*ARTEMISIA* [ar-te-mish'-a], queen of Halicarnassus, I. 773. Wife and successor of Mausolus, 2 b.

*ARTEMISIA* (botany), I. 773. Various species,



- 2 c. *A. dracunculus*, *ib.*, and XV. 573, 2 a. *A. maritima* (var. *Stechmanniana*), XVI. 730, 2 c (ill.). *A. absinthium*, 731, 1 c (ill.); I. 34, 1 b.
- ARTEMISIUM, I. 774. Naval battle of the Greeks and Persians, 1 a.
- Artemius* (Anastasius), emperor, I. 458, 1 c.
- Artemus Ward*, pseudonym, III. 344, 2 b.
- Arterial valves*, VIII. 558, 1 a.
- ARTERY, I. 774. Structure of, 491, 1 c (ANEURISM). See CIRCULATION, IV. 606, 2 b; 607, 2 b; 610, 1 a. Twisting of, I. 442, 1 c; first introduced, 447, 1 c.
- Artesian boring tools*, I. 778 (ills.); in operation (ill.), 779, 1 a; simplest (ill.), 1 c; tools for extracting obstructions (ill.), 2 a.
- ARTESIAN WELLS, I. 774 (ills.). Origin of the name, 2 ab. First artesian well, X. 470, 2 a. Principle of, I. 775, 1 a; supply from, *ib.*; increase of temperature in, 1 b; hot springs, 1 bc. Well at Grenelle, 2 a; at Passy, 2 b; at Kissingen, 776, 1 a; in the desert of Sahara, *ib.*; at Bourne, Eng., 1 b; in the Continental hotel, Philadelphia, *ib.*; at Point of Rocks, Wyo., 1 bc; in the Llano Estacado, 1 c; in Alabama, 229, 2 b; at St. Louis, 776, 2 a; at Louisville, Ky., 2 b; at Charleston, S. C., *ib.*; at Onarga, Ill., 777, 1 a; Chicago wells, 1 b; in New York city, 1 bc. Methods of boring, 2 a; in China, 2 ab; in the Pennsylvania oil region, 2 bc. Accidents in boring, 779, 1 c. Drill invented by Goulet-Collet, 2 b. Negative wells, 2 c.
- ARTEVELDE, Jacob van [ar'-têh-vel-dêh], Flemish leader, I. 780. Philip van, 1 c.
- Arthralgia*, lead (lead poisoning), X. 247, 1 c.
- ARTHRITIS, inflammation of the joints, I. 780.
- Arthrocoecus*, in lacteous fermentation, VII. 146, 1 a (ill.).
- ARTHUR, legendary hero, I. 781; X. 138, 1 a.
- Arthur*, duke of Brittany (Prince Arthur), IX. 648, 2 b and c; 649, 1 a and b.
- ARTHUR, Timothy Shay, author, I. 781.
- ARTHUR, William, clergyman and author, I. 781.
- Arthur Dudley*, pseudonym, III. 480, 2 b.
- Arthur's quoits*: see CROMLECH.
- Arthur's round table*, I. 781, 1 bc; III. 540, 2 a (ill.), (CAERLEON); XVI. 655, 2 c.
- Arthur's Seat*, VI. 405, 1 c (EDINBURGH).
- Artiads* (chemical), II. 89, 1 a; IV. 371, 1 bc; I. 585, 1 b; XII. 479, 1 b.
- ARTICHOKE, I. 781. Globe artichoke (ill.), 782. Jerusalem artichoke, 1 bc: tuber (ill.), *ib.* Canada or Virginia potato, 1 c.
- Article*, *Arabie*, I. 227, 2 a.
- Articles of Smalcald*, X. 728, 2 ab.
- ARTICULA'TA, I. 782; IX. 325, 1 b, 2 a.
- Artic'ulates*, eyes of, VII. 47, 2 ab.
- ARTICULATION (anatomy), I. 783 (ills.).
- Artificial gems*, VII. 664, 2 b; manufactory of, 665, 2 a.
- Artificial horizon*, VIII. 816, 2 c.
- ARTIGAS, José [ar-tê'-gâss], South American general, I. 784.
- ARTIL'LERY, I. 784. Illustrations: early English cannon, 785; bombard, *ib.*; mortar, *ib.*; Coehorn mortar, 786; gun carriage, 789; Dahlgren gun, 790; thirteen-inch mortar, 791; field six-pounder smooth-bore bronze gun, *ib.*; Armstrong gun, 793; Whitworth gun, *ib.*; Krupp gun, 794; Rodman gun, 795; Parrott gun, 796; Gatling gun, 797.
- Artillerymen*, patron saint of, II. 297, 2 b.
- Artillery school*, United States, XI. 538, 1 c; XIII. 638, 1 a.
- ARTIODACTYLES [ar-te-o-dak'-tils], (zoölogy), I. 797; XVI. 111, 1 a.
- Artocar'pus Brazilien'sis* (botany), III. 224, 1 c. *A. incisa*, 234, 1 b. *A. integrifolia*, 1 b, 2 c.
- ARTOIS [ar-twâ], province, I. 797. Origin of the name: see ATREBATES. Count of: see CHARLES X. (of France), IV. 288, 1 a.
- ARTOT, Joseph [ar-tô], violinist, I. 798.
- Artozerxes*: see ARTAXERXES.
- Art unions*, held to be lotteries, X. 648, 2 a.
- Arugan'*, East Indian deity, IX. 508, 1 ab.
- Aruk'h* [â-rook'] (dictionary), of Nathan ben Jehiel, referred to, IV. 231, 1 c (CHALDEE LANGUAGE).
- A'rur cordifo'lum* (botany), VII. 807, 1 bc. *A. esculentum*, VIII. 526, 2 b. *A. maculatum*, XVI. 422, 2 b.
- Arun'da*: see RONDA.
- AR'UNDEL, Thomas Howard, earl of, I. 798.
- ARUNDELIAN MARBLES: see ARUNDEL, Thomas Howard.
- ARUNDELL, Blanch, English heroine, I. 799.
- Arundel society*, I. 798, 2 c.
- Arundina'ria macrosper'ma* (botany), III. 701, 1 c (ill.); XIII. 48, 1 b.
- Arun'do phragm'ites* (botany), XIV. 240, 2 b.
- Ar'ead*, ancient city, I. 627, 2 bc.
- Arvic'ola* (zoölogy), XI. 311, 2 c. *A. riparia*, *ib.*
- ARWIDSSON, Adolf Ivar [ar'-vids-son], Swedish poet, I. 799.
- Arz*, citadel of Rome, III. 756, 1 a.
- Arz languages of India*, IX. 216, 2 a.
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- Aryballos, Egyptian* (ill.), XIII. 779.
- Aryo-Romanic race*, VI. 759, 2 b.
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- ARZAMAS'**, or Arsamas, Russian town, I. 802.
- As**, Roman weight and coin, I. 802; XI. 738, 1 a.
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- A'sA**, king of Judah, I. 802; VIII. 588, 2 a.
- Asabs*, sections of the Koran, X. 45, 1 a.
- ASAÆTIDA** [as-a-fet'-e-da], I. 802 (ill.).
- A'SAPH**, a Levite and psalmist, I. 802. "Children of Asaph," 2 b.
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- Asa race*, in northern mythology, XII. 120, 1 a.
- Asaradi'nus*, in Ptolemy's Canon, VI. 723, 1 c (ESARHADDON).
- As'arum* (botany), XV. 130, 2 c. A. Canadense, *ib.* (ill., 131).
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- ASBETUS**, mineral, I. 802; VIII. 821, 1 b.
- AS'BURY**, Francis, Methodist bishop, I. 803; XI. 454, 2 b, ff.
- Asclabotæ* (zoölogy), VII. 656, 1 a.
- Ascalabotes* (zoölogy), of Aristotle, VII. 656, 1 c.
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- ASCARIDES** [as-kär'-e-deez], (entozoa), I. 803; VI. 668, 1 c.
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- ASCEN'SION**, parish of Louisiana, I. 804.
- Ascension, right* (astronomy), how found, XV. 843, 1 a; 845, 1 a.
- ASCENSION DAY**, I. 804.
- ASCENSION ISLAND**, S. Atlantic ocean, I. 804.
- Ascensions*, balloon, for scientific purposes: see **AERONAUTICS**, I. 147, 1 a, and **GAY-LUSSAC**, VII. 653, 1 b.
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- ASCH** [âsh], town of Bohemia, I. 804.
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- ASCHAM**, Roger [as'-kam], scholar, I. 804. Instructor of Elizabeth, afterward queen, in Greek and Latin, VI. 531, 1 b.
- ASCHERSLEBEN** [âsh'-er-ee-lä-ben], Prussiantown, I. 804.
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- Ascid'ia* (botany), X. 267, 1 c; XIII. 547, 1 c.
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- ASCLEPIADES** [as-klē-pi'-a-deez], Greek physician, I. 805. His treatment of insanity, IX. 297, 1 b.
- Ascle'pias* (botany), XI. 545. A. Cornuti, 546, 1 a (ill., 545). A. variegata, 546, 1 a (ill.). A. gigantea vel procera, I. 601, 1 c.
- ASCOLI** [âs'-ko-le], city of Italy, I. 805. Ascoli Piceno [pe-châ'-no], province, 1 b. Ascoli di Satriano [de sâ-trē-â'-no], town, *ib.*
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- Asculum* *Apulum*, ancient town, I. 805, 1 b (ASCOLI).
- Asdrubal*: see **HASDRUBAL**.
- ASELLI**, or Asellio, Gasparo [â-sel'-le, -le-o], Italian anatomist, I. 805.
- Asfi* [as'-fe]: see **SAFFI**.
- As'gard*, XII. 120, 1 a (MYTHOLOGY).
- ASGILL**, John [as'-gbill], English lawyer and writer, I. 805.
- ASH**, forest tree, I. 805. Genera and species of, 1 c, ff. Mountain ash (ill.), 806, 1 c. Oak-leaved mountain ash (ill.), 2 b.
- ASH**, John, English clergyman, I. 807.
- Ash of plants*, constituents of, I. 194, 1 c, 2 a.
- Ashangi* [â-shân'-ghe], lake of Abyssinia, I. 167, 2 b.
- ASHANTEE**, a savage kingdom of Africa, I. 807.
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- ASHBY DE LA ZOUCH [ash'-be del-a zoosh], town of England, I. 808. Remains of castle in which Queen Mary was imprisoned, 1 b.
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- BESSARABA [bes-sâ'-ra-ba], family of, II. 590. Rudolph the Black, 2 c. Mirce or Mirxa, *ib.* Michael II, the Brave, *ib.* Matthew Brancovan, 591, 1 a. Constantine II. Brancovan, *ib.*
- BESSARA'BIA, province of Russia, II. 591.
- BESSARION, John or Basil, Greek scholar, II. 591.
- BES'SEL, Friedrich Wilhelm, German astronomer, II. 591.
- BESSEMER, Henry, English engineer, II. 592. His method of compressing coal dust, VII. 518, 1 ab. His process for the manufacture of steel, XV. 358, 2 c; description of, 359, 1 c, ff. (ills., 359-'61); compared with the Martin process, 363, 1 c.
- Bessemer steel*, XV. 356, 1 b, 2 ab, c; 357, 1 ab. Rails of, 362, 1 a. See BESSEMER.
- BESSIÈRES, Jean Baptiste [bā-se-âir], French soldier, II. 592.
- Bestia*, *L. Calpurnius*, referred to, IV. 120, 2 b.
- Bestusewi tinctura tonica*, inventor of, II. 593, 1 a.
- BESTZHEFF, Alexander [bes-too'-zhef], Russian poet and patriot, II. 592.
- BESTZHEFF-RIUMIN [-rew-min'], Russian family, II. 592. Peter Mikhailovitch, count, 2 b. Mikhail, grand marshal, *ib.* Alexei, count, 2 c.
- BETANÇOS, Domingo de [bā-tân'-soce], Spanish missionary, II. 593.
- Betancurt* [bā-tân-koort'], Spanish family, origin of, II. 594, 2 b. Fray Pedro de, founder of the Bethlemites, 596, 1 ab.
- Be'ta vulga'ris* (botany), II. 471, 1 a (ill.). B. altissima, 1 c. B. cycla, 2 bc (ill.). B. maritima, 472, 1 a.
- BET'EL NUT, II. 593. Betel pepper, 1 b (ill.).
- Bête rouge* [bait roozh], parasite, of Martinique, VI. 695, 2 c.
- BETH'AM, Sir William, English antiquary, II. 593. Rev. William, author, 2 a.
- BETH'ANY, village of ancient Palestine, II. 593 (ill.).
- BETHANY, village of West Virginia, II. 594. Bethany college, 1 a.
- BETH'EL, city of ancient Palestine, II. 594 (ill.).
- BETHEL, town of Maine, II. 594.
- Bethel community*, XV. 140, 2 b.
- BÉTHENCOURT, Jean, seigneur de [bā-tâ<sup>ne</sup>-koor], French navigator, II. 594.
- BETHES'DA, ancient pool or fountain, II. 594; IX. 615, 2 bc.
- Beth hammidrash*: see SYNAGOGUE, XV. 540, 1 b.
- BETH-HO'RON, Upper and Lower, two villages of ancient Palestine, II. 594.
- BETH'LEHEM, ancient town of Palestine, II. 594; ills., 595.
- BETHLEHEM, borough of Pennsylvania, II. 595.
- Bethlehemite nuns*, II. 596, 1 b.
- BETHLEHEMITES, two religious orders, II. 596.
- BETHLEN, Gábor [bet'-len], prince of Transylvania, II. 596.
- BETHPHAGE [beth'-fa-ghe], Palestine, II. 596.
- Beth-phake*, II. 596, 2 a (BETHPHAGE).
- Bethroot*, plant, XV. 867, 1 ab.
- BETHSAI'DA, Palestine, II. 596 (ill.).
- Beth'san*, village of Palestine, XIV. 726, 2 a.
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- Beth'shemesh*, city of Egypt, VIII. 619, 1 c.
- BÉTHUNE [bā-tūn], town of France, II. 597.
- Bethunc*, *David*: see BEATON.
- BETHUNE, George Washington, D. D., American clergyman and author, II. 597.
- BETLIS [bet-lees], town of Turkey, II. 597.
- Béton [Fr. bā-tô<sup>ne</sup>], a kind of concrete, V. 209, 1 a. Béton aggloméré [ag-glüh-mā-rā], 1 b. Examples of its use, 2 a, ff.



*Be'ton, David*: see BEATON.

BETROTH'NENT, II. 597. In ancient times, 2 a. Decree of the council of Trent, 2 b. In France, 2 c. In England, *ib.* In Scotland, 598, 1 a. In Germany, 1 ab. In the United States, 1 b. Among some semi-civilized races, 1 bc.

*Betsibooka*, river of Madagascar, X. 809, 2 c.

*Betsileos*, tribe of Madagascar, X. 811, 1 a.

*Betsimasakaras*, tribe of Madagascar, X. 811, 1 a.

BET'TERTON, Thomas, English actor, II. 598.

*Bettina von Arnim*: see ARNIM, I. 758, 1 c.

BETTINELLI, Saverio, Italian author, II. 598.

BETTY, William Henry West, English actor, II. 598 (died 1874). Henry, 2 c.

*Be'tula* (botany), II. 647, 1 a. B. *alba*, 1 c (ills.). B. *pendula*, 2 b (ill.). B. *lenta*, 648, 1 a. B. *papyracea*, *ib.* B. *nigra*, 1 b. B. *nana*, *ib.*

BETWAH', river of Hindostan, II. 598.

*Beudant* (François Sulpice, 1787-1850), [büh-dā<sup>nt</sup>], his classification of minerals, XI. 590, 1 b.

BEUKELS, or Beukelszoon, Willem [büh'-kels, -zone], Dutch fisherman, II. 598.

*Beulah*, county seat, III. 7, 1 b.

BEULÉ, Charles Ernest [büb-lā], French archæologist, II. 599. (Died 1874.)

BEURNOVILLE, Pierre de Ruel, marquis de [bühr-nö<sup>ve</sup>-veel], French soldier, II. 599. Étienne Martin, 1 c.

BEUST, Friedrich Ferdinand von, count [fön-boist], German statesman, II. 599. His reconstruction of the Austrian empire, 150, 1 a, ff. His project of a federal constitution for Germany, VII. 756, 2 c.

BETTHEN [boi'-ten], two towns of Prussia, II. 600.

*Beuvron, marquis de* [düh büh-vrö<sup>nt</sup>], French duellist, III. 161, 2 c.

BEVELAND, North and South [bā'-vēh-lānt], islands of Holland, II. 600.

BEVEREN [bā'-ver-en], borough of Belgium, II. 600.

BEV'ERIDGE, William, English prelate, II. 600. On Isidore Mercator's collection of canons, III. 718, 2 c.

BEV'ERLEY, borough of England, II. 600.

BEVERLEY, John of, prelate, II. 600.

BEVERLY, town of Massachusetts, II. 600.

*Beverly*, county seat, XIV. 199, 1 a.

BEW'ICK, Thomas, English wood engraver and author, II. 601. John, 1 b (*his*).

BEXAR [bā-ar'; Sp. bā'-har'], county, II. 601.

BEXAR DISTRICT, Texas, II. 601.

BEXLEY, Lord: see VANSITTART, Nicholas.

*Bey* [bā], title: see BEG; TRIPOLI, XV. 872, 2 ab; TUNIS, XVI. 31, 1 b.

*Beykaneer* [bā-ka-neer']: see BICKANEER.

BEYLE, Marie Henri [bail], French author, II. 601; IV. 17, 2 a.

*Beylol Lodi*, Afghan military chief, IX. 208, 1 bc.

*Beypasha* [bā'-pa-shā]: see BEAS.

*Beyra*: see BEIRA.

BEYROUT [bā-root'], town of Syria, II. 601; view, 602.

*Beysheher*: see BEGSHEHER.

BE'ZA, Théodore de, French reformer, II. 603.

*Bezanozano*, the, class of Madagascans, X. 811, 2 ab.

*Bezant'*, in heraldry, VIII. 672, 2 c.

*Bezant'lers* (of the deer), V. 756, 2 b.

BEZA'S CODEX, II. 603; XI. 133, 1 c.

*Bèze, Théodore de* [düh baiz]: see BEZA.

BÉZIEERS [bā-ze-ā], town of France, II. 603. Cathedral of St. Nazaire, 2 c (ill., 604). Slaughter of Albigenes at, 604, 1 b, and I. 253, 1 b.

*Bez'il* (of the diamond), VI. 75, 1 b.

BE'ZOAR, calculus used as a charm, II. 604.

BHADRINATH [bā-dre-nāt'], town of British India, II. 604.

*Bhagerut Row Sindia*, sovereign of Gwalior, VIII. 349, 1 a.

*Bhagirathi* [bā-ghe-rā'-te], source of the Ganges, VII. 609, 1 c.

*Bhainsa* [bine'-sa], tame buffalo, III. 410, 2 a.

*Bhalbuns*, bastard Brahmans, IX. 213, 2 c.

BHAMO [bā-mo'], town of Burmah, II. 604.

*Bhanmo*: see BHAMO.

BHATRIHARI [bar-trē-hā'-re; Hind. b'hur-tre-hūr'-e], Hindoo poet, II. 604.

*Bhāshyas*, commentaries on the Vedas, IX. 229, 1 ab.

BHATGAN [bāt-gān'], town of Hindostan, II. 605.

*Bhatgong*: see BHATGAN.

*Bhaugulpore'*: see BOGLIPOOR.

BHAWALPOOR [baw-al-poor'], state of Hindostan, II. 605. Town, 1 c.

BHEELS, tribe of India, II. 605; V. 197, 2 c; IX. 215, 1 a.

*Bhomiyaḥ* [bo-mē'-yā], title, II. 605, 2 ab.

BHOOL, city of Hindostan, II. 605.

BHOPAL', state of Hindostan, II. 605. Town, 2 c.

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*Bhotanta language*, XV. 705, 1 b.

BHURTPOOR', state of Hindostan, II. 606. Capital city, 1 a (ill.).

*Bhurtpore*: see BHURTPOOR.

**BLAFRA** [be-af'-ra], kingdom of Africa, II. 606.

Bight of, 1 c.

**BLALYSTOK** [byá-le-stok'], town of Russia, II. 606.

**Biamri** [be-ám'-re], Arabic title, III. 617, 2 a.

**Bianchi** [byán'-ke], (whites), Ghibelline faction at Florence, V. 670, 2 c, ff.; VII. 277, 2 a; VIII. 297, 1 b.

**BIANCHINI**, Francesco [byán-ké'-ne], Italian astronomer and author, II. 606.

**BIARD**, Auguste François [byar], French painter, II. 607. Léonie d'Aunet, writer, 1 c.

**BIARRITZ** [byar-reets], bathing place of France, II. 607. Villa Eugénie, 2 a (ill.).

**Br'as**, mythical, II. 607. Of Priene, one of the seven wise men, 2 b.

**Bias**, a cotton cloth, I. 227, 1 c.

**Biaxial crystals**, in optics, X. 441, 2 a; 449, 1 a, 2 a (ills.); 451, 2 a, ff. (ills.).

**Biban pass**, Atlas mountains, II. 81, 1 bc.

**Bibars** [bé'-bars], sultan of Egypt, III. 617, 2 bc.

**BIBB**, two counties, II. 607.

**BIBBIENA**, Ferdinando Galli da [beeb-byá'-na], Italian architect and painter, II. 608. Giovanni Maria, Francesco, and Antonio, 1 b.

**BIBER**, George Everard [bé'-ber], English clergyman and author, II. 608.

**BIBERACH** [bé'-ber-á'h], town of Württemberg, II. 608.

**BIBESCO**, George Demetrius, prince [be-bes'-ko], Wallachian statesman, II. 608. Barbo Demetrius Stirbey, hospodar, 2 ab. Nicholas, 2 b.

**Bibijagua** [be-be-'há'-gwa], ant, V. 546, 1 c.

**Bibiru bark** [be-bé'-roo], VIII. 231, 1 ab. See BEBEERINE.

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the United States, II. 615, 2 a. American Bible society, *ib.*; its revised text of the English Bible, 616, 1 b. American and foreign, 2 b. American Bible union, 617, 1 a. Bible revision association, 2 a. Controversy about the circulation of the Apocrypha, *ib.*

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**BIBLIOGRAPHY**, II. 618. Bibliographical works, 619, 1 b, ff. Earliest English treatise on it, 119, 1 c.

**BIBLIOMANIA**, II. 621.

**Bibliotheca Palatina**, section of the Vatican library, VIII. 613, 1 c.

**Bibliotheca Sacra**, periodical, XIII. 301, 2 c.

**BIBRA**, Ernst von, baron [fön bé'-bra], German naturalist, II. 622.

**BIBRAO'ITE**: see AUTUN.

**Bi'brax Suesso'num**: see LAON.

**Bicarburetted hydrogen**, Faraday's name for benzene, II. 544, 1 a.

**BICÉTRE** [be-saitr'], village of France, II. 622. Hospital of, 2 c.

**BICHAT**, Marie François Xavier [be-shá], French anatomist and physiologist, II. 623. His classification of the organs of the body, I. 461, 1 bc and c.

**BICHE DE MER** [beesh düh mair]: see SEA CUCUMBER, XIV. 728, 2 bc.

*Bichloride of methylene*: see CHLORO-METHYL.  
*Bici* [bē'-se], bird, VII. 110, 2 b.  
*BICKANEER'*, state of Hindostan, II. 623. Capital town, 624, 1 a.  
*Bickern*, small anvil, I. 579, 1 a.  
*BICK'ERSTAFF*, Isaac, English dramatist, II. 624.  
*BICKERSTETH*, Edward, English clergyman, II. 624. Henry, Lord Langdale, lawyer, 1 c. Edward, clergyman, *ib.* Robert, bishop, 2 a. Edward Henry, clergyman and poet, 2 ab.  
*Bidas'pes*, river, IX. 639, 2 c (JHYLUM).  
*BIDASSO'A*, river of Spain, II. 624.  
*BID'DEFORD*, city of Maine, II. 624.  
*Biddellians*, sect, II. 626, 1 b.  
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*BIDDLE*, Clement, American soldier, II. 625. Clement Cornell, political economist, 1 c.  
*BIDDLE*, James, American naval officer, II. 625.  
*BIDDLE*, John, English theologian, II. 625.  
*BIDDLE*, Nicholas, American naval officer, II. 626.  
*BIDDLE*, Nicholas, American banker, II. 626.  
*BIDDLE*, Richard, American lawyer, II. 627. His memoir on Sebastian Cabot, III. 531, 1 b.  
*BID'DEFORD*, seaport of England, II. 627.  
*BIDLOO*, Godfried [bid'-lo], Dutch anatomist, II. 627.  
*BIDPAY* [bid'-pī], reputed author of Hindoo fables, II. 627.  
*Bieberich* [bē'-ber-i'h]: see BIEBRICH.  
*BIEBRICH* [bē'-brī'h], town of Prussia, II. 627.  
*BIEFFE*, Édouard de [byef], French painter, II. 627.  
*BIEL* [beel]: see BIENNE.  
*Biel*, Saxon divinity, II. 628, 2 b.  
*BIELA*, Wilhelm von [bē'-la], German soldier and astronomer, II. 627. Biela's comet, 628, 1 a; V. 141, 1 a.  
*BIELEFELD* [bē'-lēh-felt], town of Prussia, II. 628.  
*Bielensee* [bē'-ler-zā], lake, II. 629, 1 a (BIENNE).  
*BIELEV* [byel-ev'], town of Russia, II. 628.  
*BIELGOROD* [byel-go-rod']: see BELGOROD.  
*Bielina* [byā-lē'-na], fortress of Bosnia, III. 112, 1 ab.  
*BIELITZ* [bē'-lits], town of Austria, II. 628. Old Bielitz, 1 c.  
*BIELLA* [byel'-la], town of Italy, II. 628.  
*Bielostok*: see BIALYSTOK.  
*BIEŁOWSKI*, August [byel-ov'-ske], Polish writer, II. 628.

*BIELSCHÖHLE* [beels'-hō-lēh], cave in the Hartz, II. 628; VIII. 493, 2 c.  
*BIELSKI*, Marcin [byel'-ske], Polish historian, II. 628.  
*Bielstein* [beel'-stine], mountain, II. 628, 2 b.  
*BIENNE* [byen], town of Switzerland, II. 628. Lake of, 629, 1 a.  
*BIENVILLE* [be-en'-vil], parish of Louisiana, II. 629.  
*BIENVILLE*, Jean Baptiste Lemoine (Le Moyne), sieur de [byā<sup>ne</sup>-veel], governor of Louisiana, II. 629. François Le Moyne, sieur de, X. 338, 1 c.  
*Bière* [byäir], forest of, VII. 304, 2 ab.  
*BIERNACKI*, Aloizy Prosper [byēr-nāts'-ke], Polish agricultural reformer, II. 630. Józef, patriot, 1 ab.  
*BIERSTADT*, Albert [beer'-stat], American artist, II. 630.  
*BIES-BOSCH* [beece'-bosk], marshy lake, Netherlands, II. 630.  
*Bièvre* [byaivr'], forest of, VII. 304, 2 ab.  
*Bièvre*, stream in Paris, VIII. 59, 1 b (*bis*).  
*Biffrasta* [be-frās'-ta], in Scandinavian mythology, XII. 120, 1 b.  
*BIG'AMY*, II. 630; XIII. 687, 1 a.  
*Big Beaver*, island, Lake Michigan, II. 436, 1 c.  
*Big Ben*, bell, London, X. 610, 1 a.  
*BIG BLACK RIVER*, Mississippi, II. 630.  
*BIG BONE LICK*, Kentucky, II. 630.  
*BIGELOW*, Erastus Brigham [big'-e-lo], American inventor, II. 630. His improvement of the power loom for carpet weaving, IV. 20, 2 b, ff.; XVI. 525, 2 c.  
*BIGELOW*, Jacob, American physician, II. 631.  
*BIGELOW*, John, American journalist and author, II. 631.  
*BIGELOW*, Timothy, American lawyer, II. 631.  
*Big figure*, in fado, VII. 89, 2 a.  
*Bigg*, Scottish barley, II. 316, 1 a; III. 257, 1 c.  
*BIG HORN*: see SHEEP, XIV. 837, 2 a.  
*BIG HORN*, county, II. 631.  
*BIG HORN RIVER*, II. 631.  
*Big Horn range*, Rocky mountains, XIV. 375, 2 c.  
*Bignonia* (botany), XVI. 15, 2 c. *B. capreolata*, 16, 1 c. *B. venusta*, 2 a.  
*Bigordi, Domenico*, painter: see GHIELANDAIO.  
*Big Rapids*, county seat, XI. 321, 2 c.  
*BIG STONE*, county, II. 632.  
*Big tree grove* ("the big trees"), III. 567, 1 c (CALAVERAS). See SEGOIA.  
*BIHAR* [bē'-hor], county of Hungary, II. 632.

BIJANAGUR [be-jâ-nâ-gŭr'], city of India, II. 632.

BIJAWUR [be-jaw'-er], state of Hindostan, II. 632.

*Bil*: see BELUS.

*Bilateral disease*, III. 310, 2 b.

*Bilateral operation*, for the stone; XV. 398, 2 c; 399, 1 a.

BILBAO [beel-bâ'-o or -bow'], city of Spain, II. 632 (ill.).

BILBERRY, shrub, II. 633 (ill.).

*Bil'bilis*, ancient town, III. 567, 1 a.

BILDERDIJK, Willem [bil'-der-dike], Dutch poet, II. 633. His second wife, poetess, 2 b.

BILE, II. 633. Its chemical composition, 2 bc. Its functions; 634, 1 c, ff., and IV. 514, 2 b (CHOLESTERINE).

*Bile duet*, common, VII. 574, 2 ab.

BILED-UL-JERID: see BELED-UL-JERID.

BILFINGER, Georg Bernhard [bil'-fing-er], German philosopher, II. 636.

*Bilgeways*, in a ship, XIV. 864, 1 a.

BILGUER, Paul Rudolf von [bil'-gäir], German chess player, II. 636.

*Biliary concretions* (calculi), [bil'-ya-re], III. 570, 1 c; IV. 514, 1 bc.

BILIARY DUCTS, II. 636; X. 536, 2 c.

*Biliary fat*, IV. 514, 1 ab.

*Biliary sugar* (picromel), II. 634, 1 c.

BILIN [be-leen'], town of Bohemia, II. 636.

*Biline* [bil'-in], in bile, II. 634, 1 c.

BILIOUS FEVER, II. 637. Bilious attack, *ib.*, and XV. 397, 1 bc.

*Bilit* [be-leet']: see MVLITTA.

*Biliverdine* [bi-liv'-er-din], (bile pigment), II. 633, 2 c; 634, 1 b and c.

*Bilkis*, reputed queen of Sheba, I. 620, 2 c.

BILL, in legislation, II. 637. Public bill, 2 b. Private bills, 638, 1 a. Money bills, 2 b. Form of bills, 639, 1 a.

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*Bill*, of an anchor, I. 465, 1 a.

*Bill book*, in bookkeeping, III. 81, 1 a.

BILL OF CREDIT, II. 639.

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BILL OF EXCHANGE: see EXCHANGE, and I. 56, 1 a (ACCEPTANCE). Rules of presentation, *ib.* Liability of acceptor and holder, 57, 2 c. Protest of foreign or inland bills, 58, 1 a.

BILL OF HEALTH: see QUARANTINE, XIV. 129, 1 ab.

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BILL OF LADING, II. 640.

*Bill of the papal guarantees*, by the Italian parliament, IX. 454, 2 a.

BILL OF RIGHTS, in the constitutional law of England, II. 640; of the United States, 2 b.

BILL OF SALE, II. 640.

*Billah*, Arabic title, III. 617, 2 a.

BILLAUD-VARENNE, Jean Nicolas [be-yō vā-rēn], French revolutionist, II. 640.

BIL'LE, Steen Andersen, Danish naval officer, II. 641.

*Billet*, in heraldry, VIII. 672, 2 b. See plate (after p. 670) on the left.

BILLIARDS [bil'-yurdz], II. 641. Best manual for playing, 643, 1 a. Billiard tables, 641, 1 bc, ff. Cushion and ball (ill.), 1 c. Carrom table, 2 b (ill.). Cue and mace, 2 c (ill.). Position of the hand, 642, 1 a (ill.). Six-pocket table (ill.), 2 b.

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BILLINGS, William, American composer, II. 643.

*Billingsgate*, fish market of London, X. 613, 2 c.

BILLINGTON, Elizabeth, English singer, II. 643.

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*Billon* [bil'-lone; Fr. bē-yō<sup>re</sup>], debased silver, XII. 535, 2 b.

*Billroth* [bil'-rote], (Theodor, born 1829), his theory of inflammation, IX. 276, 2 c. On bacteria, XV. 285, 1 ab.

*Bills receivable*, in bookkeeping, III. 80, 2 a. Bills payable, *ib.*

*Billy-biter*, bird, XV. 775, 1 c.

*Bilon*, kind of madder, X. 816, 1 c.

BILSON, Thomas, English divine and author, II. 643.

*Bilsted*, tree, X. 518, 2 a.

BILSTON, town of England, II. 643.

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*Bim bashi*, Turkish military rank, XI. 361, 1 b.

BIMINI [be-mē'-ne], imaginary island, II. 644.

BI'NARY ARITHMETIC: see ARITHMETIC, I. 708, 1 c. Binary scale of numbers, *ib.*

*Binary compounds*, in chemistry, XII. 474, 2 c; XIV. 582, 2 b.

*Binary system of chemistry*, II. 87, 2 a. Binary theory, XIV. 582, 2 bc.

*Binary system in zoology*, VII. 267, 2 a.

*Binding of books*: see BOOKBINDING.

BINDRABUND', town of Hindostan, II. 644.

*Bindweed* (convolvulus), V. 293, 1 a; black, XIII. 689, 1 a.

*Bing*, in preparing cotton for manufacture, V. 413, 1 c.

BING'EN, town of Hesse-Darmstadt, II. 644 (ill.).

*Bingerloch*, or Bingen hole, II. 644, 1 c.

BINGHAM, Joseph [bing'-um], English scholar, II. 645.

BINGHAMTON [bing'-um-tun], city of New York, II. 645.

*Bin'gium*, ancient town: see BINGEN.

BINGTANG', East Indian island, II. 645.

BIN'NALE, II. 645; V. 187, 1 b.

BINNEY, Amos, American savant, II. 645.

BINNEY, Horace, lawyer, II. 645. (Died 1875.)

BINNEY, Thomas, English clergyman, II. 646.

*Binondo* [be-nōnē'-tho], suburb of Manila, XI. 109, 1 c, 2 a.

*Binoxalate of potash*, XII. 757, 2 b; 758, 1 a.

*Bintang*: see BINGTANG.

*Binue* [be-noo'-ā]: see BENOOWE.

BIOBIO [be-o-bē'-o], river of Chili, II. 646.

BIOLOGY, science of life, II. 646; I. 527, 1 b.

BI'OX, Greek poet, II. 646.

*Bi'oplasm*, referred to, VII. 146, 1 a and b.

BIOT, Jean Baptiste [byo], French savant, II. 646.

*Biotite*, species of mica, XI. 491, 1 a.

*Bipennis*, kind of battle axe, II. 393, 2 b.

*Biphosphate of lime*, X. 479, 1 b.

BIPOXT EDITIONS (of the classics), II. 647.

*Bipontium*: see ZWEIFRÜCKEN.

*Bipotassic sulphate*, XIII. 761, 1 c.

*Biquadratic equation*, first solved, XI. 276, 1 c.

*Biran, Maine de*: see MAINE DE BIRAN.

BIRCH [burch], tree, II. 647. White hirsch, 1 c (ills.). Weeping birch, 2 b (ill.). Black, paper, red, and dwarf birch, 648, 1 a, b.

BIRCH, Samuel, English Egyptologist, II. 648.

BIRCH, Thomas, D. D., English historian and biographer, II. 648.

*Birch agaric*, used for sharpening instruments, I. 173, 1 c.

*Birch bark*, uses of, II. 647, 2 a; 648, 1 a.

*Birch-bark tar*, X. 277, 1 ab.

BIRCH-PFEIFFER, Charlotte [beer'h'-pfi-fer], German actress and dramatist, II. 648.

BIRD, Edward, English painter, II. 648.

BIRD, Golding, English physician and author, II. 648.

BIRD, Robert Montgomery, American physician and author, II. 648.

BIRDE, William, English composer, II. 649.

BIRD ISLANDS, West Indies, II. 649.

BIRD LIME, II. 649.

*Bird mite*, VI. 695, 2 ab (ill.).

BIRD OF PARADISE, II. 649. Greater paradise bird, 2 c (ill.); red, 650, 2 c (ill.); king, 651, 1 b (ill., 650); superb, *ib.* (ill., 650); gold-

breasted, 1 a (ill.); twelve-wired, 2 c (ill.); long-tailed, *ib.* (ill.).

*Bird of Velez*, V. 86, 2 c.

*Bird pepper*, III. 761, 2 a.

BIRDS, II. 652. Their anatomy, 1 b; parts (ill.), 2 a; digestive apparatus (ill.), 653, 1 b; wing bones (ill.), *ib.*; voice, 2 b; brain, 654, 1 b; organs of sense, 1 c; propagation, 2 b. Mining birds, 655, 1 c. Ground builders, 2 a. Mound builders, 2 b. Masons, 2 c. Baker bird, *ib.* Carpenters, 656, 1 a. Plat-form builders, 1 ab. Basket makers, 1 b. Weavers, 1 c. Tailors, 2 a. Cementers, 2 b. Dome builders, 2 bc. Parasites, 2 c. Skeleton of birds, V. 174, 2 c; partial anatomy of, II. 687, 1 c.

*Birds*, in heraldry, VII. 673, 1 bc. See plate (after p. 670), on the right.

*Bird's-foot trefoil*, X. 648, 2 bc.

*Bird's head process*, organ of polyzoa, XIII. 691, 1 b.

BIRD'S NEST, Edible, II. 657; I. 299, 2 c.

*Bird's nest fern*, VII. 151, 2 c (ill.).

*Bird's nest fungus*, VII. 583, 2 ab.

*Bi'reme*, galley, VII. 575, 2 ab.

*Biren* [bē'-ren]: see BIRON, Ernest John.

*Birgus*, robber crab, V. 451, 1 b.

BIRKENFELD [beer'-ken-felt], German principality, II. 657.

*Birkenfeld line*, of Zweibrücken, XVI. 840, 1 a.

BIR'KENHEAD, town of England, II. 657. Park of, XIII. 103, 2 a (map).

BIRKENHEAD, Sir John, English writer, II. 658.

BIRKET-EL-KEROON' [beer'-ket], lake, II. 658.

*Birkett's circus*, New York, alluded to, II. 575, 1 c.

BIRMINGHAM [bur'-ming-nm], town of England, II. 658; view, 659.

BIRMINGHAM, village of Connecticut, II. 660.

BIRMINGHAM, borough of Pennsylvania, II. 660.

BIRNAM, hill, Scotland, II. 660. Birnam wood, 2 ab.

BIRNEE, Old, town of Africa, II. 660.

BIRNEY, James G. [bur'-ne], American philanthropist and politician, II. 660. Defended by S. P. Chase in a prosecution for harboring a fugitive slave, IV. 327, 1 ab. David B., general, II. 660, 2 b. William, general, 661, 1 a. Fitz Hugh, colonel, *ib.*

*Birom's anemometer*, I. 490, 1 b.

BIRON, Armand de Gontaut, duke de [bē-rōn'], French general, II. 661. Charles de Gontaut, duke de, general, 1 b. Armand Louis de Gontaut (duke de Lauzun), duke de, 1 c.



BIRON, Ernest John, duke of Courland and regent of Russia, II. 661. Peter, 662, 1 a.

BIRE [bur]: see PARSONSTOWN.

BIRS NIMRUD [beerss nim-rood']: see BABEL, II. 180, 2 a, b, 181, 1 bc; BABYLON, 187, 2 a (ill.).

BIBSTALL [bur'-stul], parish of England, II. 662.

BIRTH: see OBSTETRICS; also ABORTION, and MEDICAL JURISPRUDENCE.

Birthroot, plant, XV. 867, 1 ab.

Birzha [beer'-zha], Russian exchange, VII. 21, 1 a.

BISACCIA [be-zât'-cha], town of Italy, II. 662.

BISACQUINO [be-zák-kwé'-no], town of Italy, II. 662.

Bisayas [be-sá'-yas], Malayo-Polynesian race, XI. 56, 1 a; XIII. 418, 1 b (Bisayans).

BIS'CAÏ, province of Spain, II. 662.

BISCAY, Bay of, II. 662.

BISCAY, New: see DURANGO.

BISCEGLIE [be-shá'-lyá], seaport of Italy, II. 662.

BISCHOF, Karl Gustav [bish'-ofe], German chemist and geologist, II. 662. On the genesis of minerals, XI. 590, 2 b.

BISCHOFF, Christoph Heinrich Ernst [bish'-uf], German physician, II. 662. Theodor Ludwig Wilhelm, anatomist and physiologist, 2 c. On the spontaneous ripening and discharge of ova, VI. 561, 1 c.

BISCHOFSWERDA [bish'-ofes-váir-da], city of Saxony, II. 663.

Bishop, Simon [bis'-kop]: see EPISCOPIUS.

BISCHWEILER [bish'-vi-ler], town of Alsace, II. 663.

Bischwiller [bish'-vil-ler]: see BISCHWEILER.

Biscuit [bis'-kit], for earthenware, XIII. 790, 2 a; for porcelain, 791, 2 a.

Bi'set, wild rock pigeon, XIII. 504, 1 c.

Bisexual animals, I. 533, 2 b; VI. 370, 2 c; VIII. 683, 2 c; X. 310, 1 c.

Bishroot, I. 68, 1 b (ACONITE).

BISHOP, II. 663. In the Roman Catholic church, 2 a; Anglican, 664, 1 b; Protestant Episcopal, 1 c; Lutheran and Evangelical, 2 a; Greek, *ib.*; Methodist Episcopal, XI. 456, 2 a. Number of bishops in the world, II. 664, 2 a.

BISHOP, Sir Henry Rowley, English composer, II. 664. Anna Riviere, vocalist, 665, 1 a.

Bishopric, II. 664, 2 a.

Bishops, city of, XII. 748, 1 c.

BISHOP STORTFORD, town of England, II. 665.

BISMARCK-SCHÖNHAUSEN, Otto Eduard Leopold, prince [biss'-mark-shôn'-how-zen], German statesman, II. 665. His entrance into

the ministry, VII. 757, 1 b. His willingness to cede German territory to France asserted by Lamarmora, X. 118, 2 c. Attempted assassination of him, X. 19, 1 c. Interview with Favre to agree on conditions of peace between Germany and France, VII. 99, 1 ab; treaty signed, 1 c.

Bism-Allah, or Bism-Allah, Mohammedan grace before meat, I. 323, 1 bc (ALLAH).

BISMUTH [biz'-muth], metal, II. 666. Its use in thermometry, 2 b; in alloys, 667, 1 a; in thermo-electricity, 1 bc. Compounds and their uses, 1 b; in medicine, 1 c. Nitrate of, XII. 463, 2 bc. Magistery of, *ib.*

Bisnagur': see BIJANAGUR.

BISON, II. 667. B. Americanus, 2 b (ill.).

BISSAGOS [bis-sá'-goos], islands of Africa, II. 668.

Bis'sell, William H., governor of Illinois, II. 668.

Bissermians, Finnish tribe, VII. 206, 2 c.

BISSET, Robert, English writer, II. 668.

Bistort, plant, XIII. 689, 1 a; *ill.*, 688.

BISTRE [bis'-ter], a water color, II. 668.

Bis'tritz, town of Transylvania, II. 668.

Bisulphide of calcium, X. 478, 2 a; of carbon, III. 772, 2 b, and XV. 454, 2 c.

Bisutun [be-soo-toon']: see BEHISTUN.

Bit, for boring wood, varieties of, III. 98, 2 a -99, 1 a (ills.); of a drill, II. 697, 1 c.

Bitche [beech], town: see BITSCH.

BITHOOR', town of Hindostan, II. 669. Ghauts on the Ganges, 1 a (ill.).

BITHYN'IA, ancient country of Asia, II. 669.

Bitolia, town: see MONASTIE.

BITON AND CLE'OBIS, in Greek legend, II. 669.

BITON'TO, town of Italy, II. 669.

BITSCH, town of Alsace-Lorraine, II. 669; view, 670.

Bittacle: see BINNACLE.

Bitter ash, tree, XIV. 132, 1 b.

Bitter cups, goblets of bitterwood, XIV. 132, 2 a.

BITTERFELD [bit'-ter-felt], town of Prussia, II. 670.

BIT'TERN, bird, II. 670. English bittern, 1 c (ill.); green, 2 a (ill.); least, 2 b (ill., 671).

Bittern, exhausted salt brine, bromine from, III. 307, 2 c, 308, 1 b; XIII. 693, 1 bc.

BITTER PRINCIPLES, II. 671.

Bitter-root, plant, IX. 244, 1 b.

Bitter Root range, Rocky mountains, XI. 771, 2 c.

Bitter Root river, Montana, XI. 772, 1 b, bc.

Bittersweet, plant, VI. 304, 2 b; XV. 155, 1 b (ill.). Climbing or shrubby, XVI. 517, 2 c.

*Bitter-sweet* (wild orange), XII. 664, 1 c.

*Bitterwood*, tree, XIV. 132, 1 b (ill.).

*Bitlis*: see BETLIS.

*BITTOOR*: see BITHOOR.

*Bitu* [be-too'], kind of bamboo, VII. 110, 2 a.

*BITU'MEN*, II. 671. Varieties, 2 c. Of Hit on the Euphrates, 672, 1 c; of the Dead sea, 2 a; of Trinidad, *ib.* Preparation, 2 bc. Analysis, 2 c. Uses of the natural bitumens, 673, 1 ab. Origin of, 2 ab. Among the Greeks and Romans, XIII. 366, 2 b.

*Bituminous limestone*, II. 673, 1 bc. Bituminous mastic, 1 b.

*BITUMINOUS SHALE*, II. 673.

*Bituriges* [be-tu'-re-jeez], ancient people of Celtic Gaul, II. 581, 1 c; VII. 648, 2 a. Bituriges Cubi, in central Gaul, III. 157, 2 b; 159, 2 a. Bituriges Vivisci, of southern Gaul, III. 90, 2 ab.

*Bituvalu* [be-too-va-too'], kind of bamboo, VII. 110, 2 a.

*BIRZIUS*, Albert [bit'-se-oos], Swiss author, II. 673.

*Biu-biu*, river, II. 646, 2 a (Biomio).

*Bivalve shells*, V. 198, 2 a, ff (ills.); 201, 2 a (ill.).

*Bivar*, *Rodrigo Díaz de* [be-var'], the Cid, I. 295, 2 c.

*Biva* [be'-wa], Japanese stringed instrument, IX. 537, 1 c.

*BIZERTA* [be-zër'-ta], seaport of Tunis, II. 673.

*BjÖRLING*, Carl Olaf [byör'-ling], Swedish prelate and author, II. 673.

*BjÖRNEBORG* [byör'-nëh-borg], seaport of Finland, II. 674.

*BjÖRNSON*, Björnstjerne [byörn'-son], Norwegian author, II. 674.

*BjÖRNSTJERNA*, Magnus Fredrik Ferdinand [byörn-shäir'-na], Swedish statesman and author, II. 674.

*BLACAS*, Pierre Louis Jean Casimir, duke de [blä-kä], French statesman, II. 674.

*BLACK*, Adam, Scottish publisher, II. 674.

*BLACK*, Jeremiah S., American lawyer, II. 674.

*BLACK*, Joseph, Scottish chemist, II. 674. Discoverer of carbonic acid gas, III. 773, 2 ab. His investigation of the alkalies, IV. 361, 1 c. His theory of caloric, VIII. 567, 2 bc; of latent heat, 576, 2 bc; experiments on specific heat, 573, 1 c, 2 bc.

*Black alder*, shrub, XVI. 673, 2 c.

*BLACK'ALL*, Offspring, English prelate, II. 675.

*Blackband ores* (iron), IX. 409, 1 ab, 2 a.

*Black Barthel* [bar'-tel]: see SCHWARTZ, Berthold, XIV. 689, 1 c.

*Black basalt ware*, referred to, XIII. 783, 1 ab.

*BLACKBERRY*: see BRAMBLE. Common blackberry, III. 207, 1 c. High blackberry, 2 bc (ill., 208). Low bush blackberry, *ib.* See RASPBERRY, XIV. 209, 2 a.

*BLACKBIRD*, county, II. 675.

*BLACKBIRD*, European, II. 675 (ill.). Red-winged, of New England, 2 b (ill.). In the northwestern states and Canada, 676, 1 b.

*Black book of the admiralty*, I. 124, 2 c.

*Black boy*, tree of Australia, II. 131, 1 a; VIII. 171, 2 ab.

*Black buffalo*, fish, XV. 437, 1 a.

*BLACKBURN*, town of England, II. 676.

*Black Calmucks*, XI. 747, 1 b.

*BLACK'CAP*, bird, II. 676. European, 1 c (ill.). American, 2 b.

*Blackcap*, raspberry, XIV. 210, 1 b.

*Black-capped titmouse*, XV. 775, 1 a.

*Black cardinals*, II. 577, 1 c. Banished by Napoleon, III. 47, 2 b.

*Black Castle of Opium*: see AFIUM KARA-HIS-SAR.

*Black cat* (fisher), VII. 223, 1 b.

*Black chalk*, IV. 232, 1 c.

*BLACKCOCK*, game bird, II. 676; ill., 677.

*Black cohort*, in the peasants' war, XIII. 216, 2 a.

*BLACK DEATH*: see PLAGUE, XIII. 567, 1 c. In Basel, II. 358, 1 b. In Norway, XII. 511, 1 a. Horrible persecution of the Jews occasioned by it, VIII. 597, 1 a.

*Black drink*, XVI. 773, 2 a (YACPOH).

*Black drop* (vinegar of opium), XII. 648, 2 ab. "Black drop," in a transit of mercury, XI. 405, 1 c.

*Black eagle*, Prussian order of the, founded, VII. 454, 2 a.

*BLACKFEET*, Indian tribe, II. 677; XII. 503, 2 a. Blackfeet confederacy, allusion to, I. 633, 1 a.

*BLACKFISH* (tautog), II. 677 (ill., 678).

*Blackfish* (dolphin), VI. 193, 1 a.

*Black-fish whale* (grampus), VIII. 147, 1 b.

*BLACK FLUX*, II. 678; V. 469, 1 c.

*BLACK FLY*, II. 678; VI. 129, 1 c.

*BLACKFORD*, county, II. 678.

*BLACK FOREST*, II. 678; 209, 2 a, c.

*Black friars*, II. 113, 2 b.

*Blackfriars bridge*, London, X. 592, 1 b.

*Black grass*, XIV. 471, 2 a.

*Black grotto*, near Adelsberg, I. 114, 1 c.

*Black grouse*: see BLACKCOCK.

*BLACK GUM*, tree, II. 679 (ills.).

- Black hawk*, bird, III. 507, 1 a (ill., 506).  
**BLACK HAWK**, Indian chief, II. 679.  
**BLACK HAWK**, county, II. 680.  
*Black-head*, duck, III. 733, 2 ab; 734, 1 a.  
*Black-headed saki*, monkey, XI. 751, 2 c.  
*Black helmet*, cameo shell, III. 652, 2 a.  
**BLACK HILLS**, II. 680; XIV. 375, 2 c; XVI. 749, 2 c.  
**BLACK HOLE**, Calcutta, II. 680. Monument (ill.), *ib*.  
*Black horse*, fish, XV. 437, 1 a.  
**BLACKIE**, John Stuart, Scottish author, II. 680.  
**BLACKING**, for leather and iron, II. 681.  
**BLACK JACK**, ore: see **BLENDE**, II. 708, 2 c.  
*Black-jack*, tree, XII. 555, 2 a.  
**BLACK LEAD**: see **GRAPHITE**.  
**BLACKLOCK**, Thomas, D. D., blind Scottish clergyman, II. 681.  
*Black magic*, V. 795, 1 c.  
**BLACK MAIL**, II. 681.  
**BLACKMAN**, George Curtis, American surgeon, II. 681.  
*Black martin*, bird, XV. 520, 1 a.  
*Black medick*, plant, X. 703, 2 a.  
**BLACKMORE**, Sir Richard, English physician and writer, II. 681.  
*Black mountain*, on the shore of Lake George, VII. 712, 2 c. Rogers's leap, *ib*.  
**BLACK MOUNTAINS**, of the Appalachian system, II. 682.  
*Black mountains*, of Africa, II. 798, 1 ab; of Circassia, IV. 603, 1 c.  
*Black Pancees*: see **RICKAREES**.  
*Black pilot* (rudder fish), XIV. 402, 2 bc.  
*Black Prince*: see **EDWARD**, prince of Wales.  
*"Black obelisk king,"* II. 34, 1 c.  
*Black quarter*, murrain, XII. 61, 1 b.  
**BLACK RIVER**, of New York, II. 682. See **BIG BLACK RIVER**.  
*Blacks*, a Guelphic faction at Florence, VIII. 297, 1 b.  
*Black saki*, monkey, XI. 751, 2 c.  
**BLACK SEA**, II. 682. Its opening from the Bosphorus (ill.), 683. Made free to the commerce of all nations by the treaty of Paris, X. 224, 2 a. Deneutralization of it, I. 285, 1 a: see XIV. 493, 2 a, and XVI. 62, 1 c.  
*Black'shear*, county seat, XIII. 501, 2 ab.  
**BLACK SILVER**, II. 683.  
**BLACK SNAKE**, II. 684 (ill.).  
*Black snake-root*, IV. 583, 1 bc; V. 22, 2 bc.  
**BLACKSTONE**, town of Massachusetts, II. 684.  
**BLACKSTONE**, William, first white inhabitant of Boston, II. 684.
- BLACKSTONE**, Sir William, English lawyer, II. 684.  
*"Black stone,"* the, in the Caaba, XI. 314, 2 c.  
**BLACKSTONE RIVER**, II. 685. Blackstone canal, 1 b.  
*Black stream* (Japan current), XII. 781, 2 ab.  
*Black and tan* (terrier), XV. 662, 2 c.  
*Blackthorn*, tree, XIII. 620, 2 ab; XV. 106, 2 c (ill., 107).  
*Black tongue*, fever, VII. 169, 2 bc; murrain, XII. 61, 1 b.  
**BLACK VOMIT**, II. 685; VII. 166, 2 a.  
**BLACKWALL**, suburb of London, II. 685.  
**BLACK WALNUT**: see **WALNUT**.  
**BLACK WARRIOR**, river of Alabama, II. 685.  
*Black wart*, disease in the plum tree, XIII. 621, 1 a.  
**BLACK'WATER**, river of Ireland, II. 685.  
*Black-water streams*, of Brazil, III. 220, 1 c.  
**BLACKWELL**, Alexander, Scottish physician, II. 685.  
**BLACKWELL**, Elizabeth, American physician, II. 685. Emily, 2 c. See XVI. 701, 2 ab.  
**BLACKWELL'S ISLAND**, New York, II. 686.  
**BLACKWOOD**, William, Scottish publisher, II. 686.  
*Blackwood's Edinburgh Magazine*, II. 686, 1 a; X. 568, 2 b; XIII. 296, 1 b; XVI. 652, 2 c.  
**BLADDER**, II. 686.  
*Bladder-ketmia*, plant, VIII. 713, 2 c.  
*Bladder-weed*, species of algæ, I. 299, 2 a; VII. 515, 1 a. Charcoal of, as a medicine, 2 b.  
*Bladderwort*, marsh plant, XVI. 237, 2 c (ill., 238).  
*Blade of an anchor*, I. 465, 1 a.  
*Blade of a leaf*, X. 264, 1 c; 266, 1 a, bc.  
**BLA'DEN**, county, II. 687.  
**BLADENSBURG**, town of Maryland, II. 687.  
**BLAGOVIESHTCHENS** [blá-go-ryesh-chensk'], a town of Asiatic Russia, II. 687.  
**BLAINE**, Ephraim, American soldier, II. 687. James Gillespie, statesman, 2 bc.  
**BLAINVILLE**, Henri Marie Ducrotay de [düh blá'-veel], French naturalist, II. 687. His classification of birds, XII. 706, 1 a; of fishes, IX. 160, 1 bc; of mammals, XI. 80, 1 c, 81, 2 b; of reptiles, VIII. 693, 1 bc. His theory of the anatomy of the head, XIII. 423, 1 c.  
**BLAIR**, county, II. 688.  
**BLAIR**, Francis Preston, American journalist, II. 688 (died 1876). Montgomery, lawyer and politician, 2 b. Francis Preston, jr., lawyer and soldier, 2 c (died 1875).

- BLAIR, Hugh, Scottish divine and author, II. 689.
- BLAIR, James, American clergyman and teacher, II. 689.
- BLAIR, John, Scottish chronologist and geographer, II. 689.
- BLAIR, Robert, Scottish poet, II. 689.
- Blair's process of making steel*, IX. 403, 2 a.
- BLAIRSVILLE, borough of Pennsylvania, II. 689.
- Blairsville*, county seat, XVI. 111, 2 c.
- Blazot* [blā-zō], librarian to Louis XVI, imprisonment in the Bastille, II. 376, 1 c.
- BLAKE, George Smith, American naval officer, II. 689.
- BLAKE, John Lauris, American author and clergyman, II. 689.
- BLAKE, Robert, English admiral, II. 690.
- BLAKE, William, English artist and poet, II. 690. His process of etching upon copper, 691, 1 a; X. 526, 1 b.
- Blakely*, county seats, II. 238, 1 a; VI. 354, 1 c.
- BLAKELY, Johnston, American naval officer, II. 691.
- Blakely gun*, I. 793, 2 c; III. 712, 2 a (ill.).
- Blake's safety explosive*, VII. 30, 1 c.
- BLAKEY, Robert, English metaphysician and author, II. 692.
- BLANC, Jean Joseph Louis [blā<sup>ns</sup>], French political and historical writer, II. 692. Auguste Alexandre Charles, engineer and art critic, 2 c; duel with Lacombe, X. 83, 1 c.
- BLANC, Le [lāh blā<sup>ns</sup>], town of France, II. 693.
- BLANC, MONT: see MONT BLANC.
- Blanc fixe* [blā<sup>ns</sup> feex], white pigment, II. 313, 1 c.
- BLANCHARD, Émile [blā<sup>ns</sup>-shar], French naturalist, II. 693.
- BLANCHARD, François, French aéronaut, II. 693; I. 146, 1 c. Marie Madeleine Armant, aéronaut, II. 693, 1 c; I. 146, 2 b. Her tragic fate, *ib*.
- BLANCHARD, Henri Pierre Léon Pharamond, French painter, II. 693.
- BLANCHARD, Laman, English writer, II. 693.
- BLANCHARD, Thomas, American mechanic and inventor, II. 693. His turning machine, XVI. 74, 2 b.
- BLANCHE, August [blā<sup>ns</sup>-sh], Swedish poet, II. 693.
- BLANCHE OF BOURBON, queen of Castile, II. 693.
- BLANCHE OF CASTILE, queen of France, II. 694; X. 652, 1 ab.
- Blanche of France*, daughter of St. Louis, X. 81, 1 ab and b.
- BLANCO, county, II. 694.
- BLAND, county, II. 694.
- BLAND, Theodorice, American patriot and soldier, II. 694.
- BLANDRATA, Giorgio [blān-drā'-ta], Italian Unitarian, II. 695; I. 262, 1 a.
- BLANGINI, Giuseppe Marco Maria Felice [blān-jē'-ne], Italian composer, II. 695.
- Blank* (card), in faro, VII. 89, 1 b.
- BLANKENBURG [blān'-ken-boorg], circle in the duchy of Brunswick, II. 695. Town, 2 ab.
- Blanket of the whale*, XVI. 581, 2 b.
- BLANK'HOF, Jan Teunisz, Dutch painter, II. 695.
- Blanks*, in pen making, XIII. 243, 2 b.
- BLANQUÉ, Jérôme Adolphe [blā<sup>ns</sup>-kē], French political economist, II. 695. Jean Dominique, 2 c. Louis Auguste, revolutionist, 696, 1 a.
- Blari'na* (zoölogy), XV. 8, 1 a. B. talpoides, *ib*. (ill., 7).
- BLARNEY, village of Ireland, II. 696. Blarney castle, *ib*. (ill.). Blarney stone, 1 c.
- BLAS'PNEMY, in law, II. 696.
- Blast, hot*, in smelting furnaces, II. 743, 1 c. See IX. 394, 1 a, ff.
- Blast furnace*, II. 741, 2 bc; VII. 542, 1 c; IX. 392, 1 b, ff. (ills., 393, 394).
- BLASTING, II. 697. Implements, 1 b; 699, 1 b. Sand blast, 697, 2 b. Excavation by fire, 2 c. Blasting with the galvanic battery, 698, 1 b; at the Holyhead quarries, 2 a (ill.). Choice of explosive compound, 2 c. Surface blasting, 699, 2 c. Mountain tunnelling, 700, 1 c. Drill at work (ill.), *ib*. Stopping (ill.), 2 a. Hoosac tunnel, 701, 1 a. Submarine blasting, 1 ab; coffer dam, *ib*. (ill.). Removal of Blossom rock, 2 a (ills., 702); of obstructions at Hellgate, 702, 2 a (ill.).
- Blasting powder*, composition of, VIII. 331, 2 ab.
- Blastocerus* (zoölogy), V. 758, 2 a. B. paludosus, *ib*. (ill.). B. campestris, *ib*.
- Blastodermic membrane*, VI. 561, 2 bc.
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COYPEL, Noël [kwá-pèl], French painter, V. 447. Antoine, 2 ab. Noël Nicolas, 2 b. Charles Antoine, 2 bc.

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*Crab*, in printing press, XIII. 852, 2 c.

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CRABBE, George, English poet, V. 451.

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*Cracknels*, from whales' blubber, XVI. 583, 1 ab.

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CRAFTS, William, lawyer and author, V. 454.

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CRAMER, John Baptist, musical artist and composer, V. 456.

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*Cramp fish*: see TORPEDO.

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CRANWORTH, Robert Monsey Rolfe, baron, lord chancellor of England, V. 461.

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CZENSTOCHOWA, or Czenstochau [chen-sto-'ho'-va, chen'-sto-'how], town of Poland, V. 625.

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HEIBERG, Johann Ludwig [bi'-bâirg], Danish author, VIII. 613.

HEIDELBERG [hi'-del-bâirg], city of Baden, VIII. 613 (view). University, 2 a. Heidelberg tun, 2 c.

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*Heidenmauer* [hi'-den-mow-er], ancient rampart in Bavaria, VI. 331, 1 c.

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*Heilige Dam* [hi'-le-ghëh dâm], VI. 164, 1 c.

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*Heimdallr* [hime'-däl'r], in Norse mythology, XII. 120, 1 b.

*Heimskringla*, ancient Norwegian chronicle, XV. 134, 1 b.

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HEINICKE, Samuel [hi'-nik-këh], German edu-

- cator, VIII. 615. His instruction of the deaf and dumb, V. 732, 2 c.
- HEINSE, Johann Jakob Wilhelm [hine'-zëh], German author, VIII. 616.
- HEINSIUS, Antonius [hine'-se-us], grand pensionary of Holland, VIII. 616.
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- Heinz, Matthias [hînts], architect, II. 570, 2 c.
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- Hekatomphonia, a sacrifice, I. 705, 1 a.
- Hel, in Norse mythology, XII. 120, 1 a.
- Helaretos (zoölogy), II. 419, 2 c. H. enryspilus, *ib.* H. Malayanus, *ib.* (ill., 420).
- HELDER, The, seaport of Holland, VIII. 617.
- Helderberg mountains, XII. 355, 1 c; 356, 2 a.
- HELEN, in Greek legend, VIII. 617.
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- Helena, county seat, IX. 769, 1 b.
- HELENA, Saint, island: see SAINT HELENA.
- HEL'ENA, Saint, mother of Constantine, VIII. 618. Finding of the cross, V. 513, 2 a. Helena's church, Jerusalem, IX. 617, 2 a.
- Helenine [hel'-e-nin], vegetable principle, VI. 497, 2 c.
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- Helianthophora nutans (botany), XIII. 549, 1 b (ill.).
- Hel'land [hä'-le-ând], old Saxon poem, XIV. 657, 2 bc.
- HELIANTHUS: see SUNFLOWER, XV. 481, 1 c. H. annuus, 2 a. H. multiflorus, 2 c (ill.). Other species, 482, 1 a. H. tuberosus, I. 782, 1 bc (ill.).
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- HELIODORUS, Greek romance writer, VIII. 619.
- Heliodorus, Syrian general, X. 772, 1 b.
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- Heliotrope, variety of quartz, IX. 570, 2 b.
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- HELIX, in architecture, VIII. 620.
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- HELL, Maximilian, Hungarian astronomer, VIII. 620.
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- HELLER, Joseph, German author, VIII. 622.
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- HELLER, Stephan, composer, VIII. 622.
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- Hell Gate, pass in the East river, VI. 380, 2 ab. Removal of obstructions to its navigation, II. 699, 2 c, 702, 2 a.
- Hellgate, Indian treaty of, VII. 261, 2 a.
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- Helluland, island, XII. 498, 1 b.
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- HELMERS, Jan Frederik, Dutch poet, VIII. 622.
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- HELMHOLTZ, Hermann Ludwig Ferdinand, Ger-



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*Helmina*, pseudonym, IV. 396, 1 b.

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*Helvella*, fungi, VII. 532, 1 b.

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*Helvetic Republic*, XV. 530, 2 c.

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*Hemidesmus Indicus* (botany), XIV. 635, 2 c.

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*Hemphill*, county seat, XIV. 507, 2 ab.

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*Hendersonville*, county seat, VIII. 635, 1 b.

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HENDRICKS, Thomas Andrews, American statesman, VIII. 636.

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HENLEY, John, "Orator Henley," VIII. 637.

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*Hennepin*, county seat, XIV. 100, 1 b.

HENNEPIN, Louis [Fr. en-pān'], French missionary, VIII. 638.

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*Henri I.* [ān'-rē], king of Hayti, IV. 552, 2 b; VIII. 552, 2 a.

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HENRIQUEL-DUPONT, Louis Pierre [ān'-re-kail-dū-pōn'], French engraver, VIII. 640.

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*Hepar sulphuris*, liver of sulphur, XIII. 760, 2 c.

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*Hepatic gas*, II. 558, 1 c.

*Hepatic plexus*, of the sympathetic nerve, X. 537, 1 b.

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*Heptaméron* [ep-tā-mā-rō<sup>ne</sup>], a French classic, XI. 155, 2 a.

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*Her'bemont*, Mr. [Fr. āirb-mō<sup>ne</sup>], American grape grower, I. 418, 1 c. Herbemont grape, *ib*.

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*Hercules, pillars of*, VII. 800, 2 c; VIII. 679, 2 c.

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*Herd's grass*, red-top, VIII. 167, 2 c. Timothy, *ib.*, and XV. 757, 2 c.

*Herdsmen, the*, curiosity in Staffa, XV. 301, 1 a.

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*Hermandad* [âir-mân-thâth'], holy brotherhood, IV. 616, 2 b; VII. 136, 1 bc.

*Her'mann*, county seat, VII. 641, 1 a; I. 417, 2 a, 418, 2 a, b, 419, 1 a, 2 bc, 420, 1 b.

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*Hermesianism*, doctrine, VIII. 684, 2 ab.

*Hermesite*, mineral, XV. 50, 1 c.

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*Johnny-go-to-bed*, plant, XV. 323, 1 bc.

*Johnny-jump-up* (or jumper), XVI. 363, 1 a.

*Johnny the Piper*, fanatic, XIII. 215, 1 b.

*Johns Hopkins university*, XVI. 215, 1 c. See  
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JOHNSON, name of eleven counties, IX. 656.

JOHNSON, Alexander Bryan, American author,  
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JOHNSON, Andrew, president of the United  
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JOHNSON, Eastman, American painter, IX. 662.

JOHNSON, Edward, American historian, IX.  
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JOHNSON, Isaac, a colonizer of Massachusetts,  
 IX. 662. Arbella or Arabella ("Lady Ar-  
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JOHNSON, Reverdy, American statesman, IX.  
 662. (Died 1876.) Johnson-Clarendon  
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JOHNSON, Richard Mentor, American states-  
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JOHNSON, Samuel, American clergyman, IX. 663.

JOHNSON, Samuel, English author, IX. 663.  
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JOHNSON, Walter Rogers, American physicist, IX. 668.

JOHNSON, Sir William, general and colonial officer, IX. 668. Sir John, general, 669, 2 b.

*Johnsonville*, county seat, XV. 482, 1 b.

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JOHNSTON, Albert Sidney, American soldier, IX. 669.

JOHNSTON, Alexander, Scottish painter, IX. 670.

JOHNSTON, Alexander Keith, geographer, IX. 670.

JOHNSTON, Arthur, physician, IX. 670.

JOHNSTON, Charles, British satirist, IX. 670.

JOHNSTON, George, Scottish naturalist, IX. 670.

JOHNSTON, James F. W., chemist, IX. 671.

JOHNSTON, Joseph Eccleston, American soldier, IX. 671.

JOHNSTONE, town of Scotland, IX. 671.

JOHNSTOWN, village of New York, IX. 671.

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*Joint*, in anatomy: see ARTICULATION.

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JOINT TENANTS, in law, IX. 672.

JOINVILLE, François Ferdinand Philippe Louis Marie d'Orléans, prince de, IX. 672.

JOINVILLE, Jean, sire de [düh zhvä'-veel], French chronicler, IX. 673.

JÓKAI, Mór [yo'-kaw-e], Hungarian author, IX. 674.

JOKJOKERTA, or Jokyokarta, province of Java, IX. 674. Capital, 1 b.

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JOLIET [jo'-le-et], city of Illinois, IX. 674.

JOLIET, Charles [zhüh-lyä], French author, IX. 674.

*Joliet, Louis*: see JOLLIET.

JOLIETTE [Fr. zhüh-lyët], county of Canada, IX. 674. Town, 2 ab.

JOLLIET, Louis, French explorer, IX. 674.

JOLLIVET, Pierre Jules [zhüh-le-vä], painter, IX. 675.

JOMARD, Edme François [zhüh-mar], geographer, IX. 675.

JOMELLI, Nicolò [yo-mel'-le], Italian composer, IX. 675.

JOMINI, Henri, baron [zhüh-me-ne], French military historian, IX. 675.

JONAH, Hebrew prophet, IX. 676. So-called tomb of: see NINEVEH, XII. 456, 1 c.

JONAS, Justus [yo'-näs], German theologian, IX. 676.

JONATHAN, brother of Judas Maccabæus: see HEBREWS, VIII. 592, 1 a, 2 a.

*Jonathan*, son of Saul, V. 705, 1 ab, ff.

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JONES, Anson, president of Texas, IX. 677.

JONES, Inigo, English architect, IX. 677.

JONES, Jacob, American naval officer, IX. 678.

JONES, John, Welsh clergyman, IX. 678.

JONES, John Paul, American naval officer, IX. 678.

*Jones, Dr. Joseph*, on the diseases in Andersonville prison, I. 474, 2 bc.

JONES, Owen, English architect, IX. 679. On the Alhambra, 2 bc; I. 310, 1 c. Owen, Welsh archæologist (1740-1814), IX. 679, 2 b.

JONES, Thomas Rymer, English anatomist, IX. 680; I. 161, 1 bc. His classification of reptiles, VIII. 694, 2 b; of fishes, IX. 161, 1 ab.

JONES, William, English divine, IX. 681.

JONES, Sir William, orientalist, IX. 680; X. 294, 2 c.

JONESBORO, village of Georgia, IX. 681. Battle of, 1 c.

*Jonesborough*, county seats, XVI. 112, 2 b; 475, 1 a.

*Jonesville*, county seat, X. 289, 2 a.

*Jongleurs* [zhō'-glür], IX. 707, 1 c; XIV. 40, 1 b.

JÖNKÖPING [yön-chō'-ping], province of Sweden, IX. 681. Town, 2 a.

*Jonquil*, variety of the canary, III. 692, 1 c.

*Jonquil*, flower, XII. 145, 1 b, 2 b.

JONSON, Benjamin, English dramatist, IX. 681.

JONSSON, Finn [jons'-son], Icelandic historian, IX. 682.

JOODPOOR', state of India, IX. 682. Town, 2 c.

JOONPOOR, town of India, IX. 683.

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JORDAENS, Jacob [yor'-dānce], Flemish painter, IX. 683.

JOR'DAN, river of Palestine, IX. 683. Sources, 1 bc (ill.).

*Jordan*, river of Utah, VIII. 182, 2 b; 184, 1 a.

JORDAN, Camille [zhor-dā's], French statesman, IX. 684.

JORDAN, Charles Étienne, author, IX. 684.

JORDAN, Dorothy, Irish actress, mistress of the duke of Clarence (William IV.), IX. 684.

JORDAN, Rudolph [yor'-dän], German painter, IX. 684.

JORDAN, Wilhelm, German poet, IX. 684.

*Jordanes*: see JORNANDES.

*Jordanus of Namur*, mathematical works of, I. 708, 1 ab.

JÖRG, Joseph Edmund [yörg], German author, IX. 685.

JÖRG, Johann Christian Gottfried, physician, IX. 685. Eduard, physician, 1 b.

JÖRG'ENSON, Jorgen [Dan. yor'-ghen-son], Danish adventurer, IX. 685.

JORNANDES, Gothic historian, IX. 685.

JORTIN, John, English divine and author, IX. 686.

JORULLO ['ho-roo'-lyo], volcano of Mexico, IX. 686 (ill.).

JOSEPH, Hebrew patriarch, IX. 686.

JOSEPH, reputed father of Jesus, IX. 687.

JOSEPH I., emperor of Germany, IX. 687. Compelled to restore the churches taken from his Protestant subjects, IV. 305, 1 b.

JOSEPH II., emperor of Germany, IX. 687; X. 356, 1 a; II. 145, 1 ab; IX. 58, 2 b.

JOSEPH, king of Naples and Spain: see BONAPARTE, Joseph, III. 29.

JOSEPH, Father [zhüh-zëf], confidential friend of Richelieu, IX. 688.

JOSEPHINE [jo-zëb-feen], county, IX. 687.

JOSEPHINE, empress of France: see BONAPARTE, III. 46, 2 a. Her first marriage, *ib.*; II. 426, 1 b. Introduction to Bonaparte, III. 46, 2 c; marriage, *ib.*; divorce, 47, 1 bc.

JOSEPHUS, Flavius, Jewish historian, IX. 689.

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JOSHUA, Israelitish leader, IX. 689.

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JÓSIKA, Miklos, baron [yo'-zhe-kaw], Hungarian novelist, IX. 690.

JOSQUIN DES PRÉS [zhüs-kü<sup>re</sup> dā prā], French composer, IX. 690; XII. 88, 2 c.

*Josslyn, John*, XVI. 607, 1 c.

JOST, Isaak Markus [yoast], German author, IX. 690.

*Jotunheim* [yö'-toon-hime], in Norse mythology, XII. 119, 2 bc.

JOTUNS: see MYTHOLOGY, and VII. 794, 1 b.

JOURBERT, Barthélemy Catherine [zhoo-bäir], French general, IX. 691.

*Jouberton, Madame* [zhoo-bäir-tö<sup>re</sup>], wife of Lucien Bonaparte, III. 34, 2 c, 1 ab.

JODPORE [jood-pore]: see JODPOOR.

JOUFFROY, Théodore Simon [zhoo-frwá], French philosopher, IX. 691. See MORAL PHILOSOPHY, XI. 813, 1 c; PHILOSOPHY, XIII. 444, 1 b.

JOUFFROY D'ARBANS, Claude François, marquis de [dar-bä<sup>re</sup>], mechanician, IX. 692. Achille, marquis de, politician and writer, 1 b.

JOTLE, James Prescott [jool], English natural philosopher, IX. 692. Mechanical equivalent of heat ("Joule's equivalent") established by him, 2 c; V. 378, 2 b, c. Experiments in magnetism, IX. 692, 1 c; XI. 6, 2 c.

JOTXPORE: see JOONPOOR.

JOURDAN, Antoine Jacques Louis [zhoor-dä<sup>re</sup>], French physician, IX. 693.

JOURDAN, Jean Baptiste, count, general, IX. 693.

*Journal*, in bookkeeping, III. 81, 1 a.

*Journal des Débats* [zhoor-näl dā dā-bä], newspaper, II. 585, 2 a; XII. 336, 2 c (name and character changed by Bertin). Its opposition to royalist schemes in 1872, X. 336, 1 b.

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*Journée des barricades* [zhoor-nä dā bär-re-käd], in French history, VIII. 656, 1 a.

*Journée des dupes* [dā düp], XII. 699, 1 b; XIV. 317, 2 ab.

*Joust* [jüst], IV. 497, 2 b; XV. 824, 1 b.

JOUREL, Henri [zhoo-tël], French explorer, IX. 693.

JOUVENET, Jean [zhoov-nä], painter, IX. 693.

JOYE, Victor Joseph Étienne de [zhwe], author, IX. 694.

JOVELLANOS, Gaspar Melchior de ['ho-vä-lyá'-noce], Spanish poet, IX. 694.

JOVIAN, Roman emperor, IX. 694.

*Jovian legion*, Roman, X. 851, 1 b.

*Joviniacum*: see JOIGNY.

*Jovinnis*, Roman usurper, XVI. 564, 1 bc.

JOVIUS, Paulus: see GIOVIO.

*Jowar'ree*, kind of grain, II. 510, 2 b.

JOWETT, Benjamin, English clergyman and critic, IX. 695.

JOWF, province of Shomer, IX. 695.

*Joyce Heth*, so-called nurse of Washington, II. 324, 1 a.

JOZÉ, Antonio [zho-zá], Portuguese dramatist, IX. 695.

JU'AB, county, IX. 695.

*Juan, Don*: see DON JUAN.

JUAN, Don ['hwán]: see JOHN OF AUSTRIA.

*Juan, Don Jorge*: see JUAN Y SANTACILLA.

*Juana, princess* ['hwá'-na], (la Beltraneja), VII. 136, 1 b; IX. 422, 1 bc.

*Ju'an de Fuca*, strait of: see FUCA.

*Juan del Valle* ['hwán dail vá'-lyá], nom de plume, III. 534, 2 c.

JUANES, Vicente ['hwá'-nace], Spanish painter, IX. 695.

JU'AN FERNAN'DEZ, island, IX. 695; V. 763, 2 bc.

JUAN Y SANTACILLA, Jorge ['hwán e sán-ta-thé'-lyá], Spanish explorer, IX. 696.

JUAREZ, Benito Pablo ['hwá'-race], president of Mexico, IX. 697.

JUARROS, Domingo ['hwár'-roce], Central American ecclesiastic, IX. 698.

JUBA I., king of Numidia, IX. 698. Juba II., 2 b.  
*Jubæ'a spectabilis* (botany), XIII. 21, 1 c (ill.).  
 JUBBULPORE', town of India, IX. 698.  
 JUBILEE, festive year, IX. 698.  
*Jubilee college*, founder of, IV. 326, 2 b.  
*J. U. D.*, doctorate, VI. 172, 2 bc.  
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 JUDAH, Hebrew patriarch, IX. 699.  
 JUDAH (Hakkadosh), rabbi, IX. 699; VIII. 728, 1 ab.  
 JUDAH (Hallevi), Spanish rabbi, IX. 699.  
*Judah*, kingdom of, IX. 699, 1 bc; VIII. 587, 2 a. Wilderness of, XII. 619, 1 b.  
*Judaizing Christians*, VI. 374, 1 a.  
 JUDAS ISCARIOT, disciple and betrayer of Jesus, IX. 699.  
 JUDAS MACCABEUS: see HEBREWS, VIII. 592, 1 b, c.  
 JUDAS TREE, IX. 699 (ill., 700).  
 JUDD, Sylvester, American author, IX. 700.  
 JUDE, Saint, apostle, IX. 700. Epistle of, 2 c.  
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 JUDENBACH [yoo'-den-bâ'h], village of Germany, IX. 702.  
*Judex*: see JURY, IX. 722, 1 b.  
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*Judgment, conditional*, in logic, X. 579, 2 a; disjunctive, 1 a.  
*Judicium parium*, in Magna Charta, IX. 722, 2 c.  
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*Judith*, queen of the Anglo-Saxons, VI. 744, 2 a, ab; 746, 1 a.  
*Judith*, duchess of Normandy, II. 576, 2 b.  
 JUDITH, Mlle. [zhû-deet], French actress, IX. 702.  
*Judith*, wife of Louis le Débonnaire, X. 650, 2 c.  
 JUDSON, Adoniram, American missionary, IX. 702. His imprisonment, 703, 2 c. Ann Haseltine, his first wife, 704, 2 c. Sarah Hall (Boardman), his second wife, 705, 1 a. Emily Chubbuck, his third wife, author, 2 a.  
 JUEL, Niels [yool], Danish admiral, IX. 705. Johann, Baron Julinge, 706, 1 a.  
*Juga Marthæ* (botany), I. 301, 1 a.  
*Jugduluk pass*, I. 161, 2 c (AFGHANISTAN).  
*Jugerum*, Roman measure of land, I. 72, 2 c.  
*Juge de paix* [zhûzh düh pā], officer of justice, IX. 726, 2 a.  
 JUGGERNAUT', town of Bengal, IX. 706. Temple, 1 bc (ill.). Title of Krishna, 1 c. Great festival of, 2 a.  
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*Ju'glans* (botany), XVI. 439, 1 c; VIII. 715, 2 a. *J. cinerea*, III. 501, 1 b (ill.). *J. nigra*, XVI. 439, 2 c (ill., 440). *J. rupestris*, 440, 1 c. *J. regia*, *ib.* (ill.).  
 JUGUR'THA, Numidian king, IX. 708.  
*Juhal*, in the Druse religion, VI. 274, 1 a.  
 JUILLERAT, Clotilde Gérard [zhû-è-yûh-râ], French painter, IX. 709.  
 JU'JUBE, tree, IX. 709 (ill.). Jujube paste, 2 a.  
 JUJUY ['hoo-'hwé'], Argentine province, IX. 709. San Salvador de, city, 710, 1 a.  
*Julfa* [jool'-fa], suburb of Ispahan, IX. 435, 2 bc.  
*Julia Batera* (Béziers), II. 604, 1 b.  
*Juliacum* (Jülich), IX. 711, 1 b.  
 JULIAN (the Apostate), Roman emperor, IX. 710; V. 279, 1 b. Disciple of Iamblichus, XII. 225, 1 c. His favor to the Parisii, XIII. 89, 1 c. His treatment of Basil the Great, II. 362, 2 b. Law against the Christians, IX. 710, 2 ab. His treatise against the Christians, 711, 1 a.  
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 JÜLICH [yü-'li'h], town of Prussia, IX. 711. Jülich succession, 1 bc.  
 JULIEN, Stanislas Aignan [zhû-lyä'ne], French orientalist, IX. 711.  
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 JULIUS, name of three popes, IX. 711. I., Saint, 2 b. II., Giuliano della Rovere, 2 bc. His patronage of Michel Angelo, III. 442, 2 c; his statue by him destroyed, 443, 1 a, 18, 1 c. His patronage of Raphael, XIV. 205, 2 c. III., Gian Maria del Monte, IX. 712, 1 bc.  
*Julius, Cardinal* (Clement VII.), I. 236, 1 a.  
 JULIUS, Nikolaus Heinrich [yoo'-le-oos], German physician, IX. 712.  
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*Julius Robert diffusion process*, in sugar making, XV. 446, 2 bc.  
*Jullalabad*: see JELALABAD.  
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*Jumblat Beshir*, Druse sheik, VI. 275, 2 a.  
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*"Jump up and kiss me,"* plant, XVI. 363, 1 a.  
*Juncea'ceæ* (botany), XIV. 471, 1 b.  
*Junco* (ornithology), XV. 136, 2 ab. *J. hyemalis*, *ib.* (ill.). *J. caniceps*, 1 b. *J. Oregonus*, 137, 1 a.  
*Junction City*, county seat, V. 710, 1 c.  
*Junco* (botany), XIV. 471, 1 b. *J. effusus*, 2 a (ill.). *J. Gerardi*, VIII. 169, 1 bc.  
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*Jungermannia'ceæ* (botany), X. 543, 1 a.  
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JUNGHUN, Franz Wilhelm [yoong'-hoon], German naturalist, IX. 714.  
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*Jungle*, XI. 54, 1 ab. *Jungle fevers*, *ib.*  
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*Jungle koola*, jackal, IX. 11, 1 c; 481, 2 b.  
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- tus, XIII. 686, 1 a. Juno Moneta, temple of, III. 786, 1 bc.  
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*Junonia*, ancient city, IV. 39, 1 c.  
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*Ju-sha*, Japanese Confucians, IX. 539, 1 c.  
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*Justice general*, lord, Scotland, XIV. 702, 2 c.  
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*KISSINGEN* [kis'-sing-en], watering place of Bavaria, X. 19. Artesian well at, I. 776, 1 a.  
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*Kistendjeh*: see KUSTENDJI.  
*KISTNAH*, river of India, X. 19.  
*Kistvaen*: see CROMLECH, and VII. 198, 1 c.  
*Kit*, small violin, XVI. 363, 2 b.  
*Kit* (swift fox), VII. 359, 1 c.  
*Kitamby*, Madagascan garment, X. 812, 1 c.  
*Kit Carson*, county seat, VIII. 240, 1 c.  
*KIT CAT CLUB*, London, X. 19. Kit Cat portraits, 2 b.  
*Kitchen middens*: see FINDS, VII. 196, 2 a.  
*KITCHNER*, William, English physician, X. 19.  
*Kit's Coty House*, V. 500, 1 b (ill.).  
*KITE*, bird, X. 19 (ill., 20).  
*Kite dance*: see BATADEER, II. 404, 2 b.  
*KITSAP*, county, X. 20.  
*KITTAN'NING*, borough of Pennsylvania, X. 20.  
*KITTATINNY MOUNTAINS*, X. 20; XVI. 123, 2 c.  
*KITTERY*, town of Maine, X. 21.  
*Kittim* (or Chittim), V. 616, 2 c.  
*KITTIWAKE*: see GULL, VIII. 319, 2 c.  
*KITTO*, John, English Biblical scholar, X. 21.  
*KITTLITZ*, F. H. von, baron, naturalist, X. 21.  
*Kittul*, fibre of palm leaves, XIII. 18, 1 c.  
*Kitty Crocodile*, sobriquet, X. 11, 2 a.  
*Kitty wren*: see WREN, XVI. 735, 1 ab (ill.).  
*Kiyi* [kü'-fe]: see CURFIC, V. 561, 2 b.  
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*KIUSIU* [ku-shü], island of Japan, X. 21.  
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*KIWI-KIWI* [kě'-we-kě'-we]: see APTERYX.  
*Kizil-Irmak* [kiz'-il-eer-mäk'], river, I. 216, 1 c.  
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*Klad' deradatsch*, German "Punch," IX. 736, 1 b.  
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*Kling*, people of India so called, IX. 215, 1 c.  
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*Klipstein* [klip'-stine], cranium of dinotherium found by, VI. 117, 1 b.  
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*Klitter*, sterile flats in Jutland, VI. 10, 2 c.  
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*Klopp castle*, near Bingen, II. 645, 1 ab.  
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*Knapp, Isaac* [náp], American printer, VII. 629, 1 c.  
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*Knight, Silas P.*, his process of electrotyping, XIII. 851, 1 bc.  
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*Knights hospitallers*, of the order of Saint John of Jerusalem, XIV. 535, 1 b; of St. Lazarus, X. 362, 1 b.  
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*Knights sword-bearers*, X. 530, 2 a; XIV. 335, 1 a.  
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*Know-nothing party*, in politics, XVI. 172, 1 bc.  
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*Knox*, Henry, American general, X. 33.

*Knox*, John, Scottish reformer, X. 33. Referred to, XI. 234, 1 b. See PRESBYTERIANISM, XIII. 810, 1 c. Confession of faith attributed to him, 2 bc.

*Knox*, Vicesimus, English clergyman, X. 35.

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*KNOXVILLE*, city of Tennessee, X. 35. Siege of, 36, 1 a.

*Knorrville*, county seats, V. 465, 1 c; XI. 169, 2 b.

*Knuphis* [knoo'-fis], Egyptian divinity, VI. 464, 1 a; XII. 116, 2 b.

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*KNYPHAUSEN*, Baron [knip'-how-zen], German soldier, X. 36.

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*KOELL*, Franz von, German mineralogist, X. 36.

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*Koch*, Karl Heinrich Emanuel [kô'h], German traveller, X. 37.

*KOCHANOWSKI*, Jan [ko-'ha-nov'-ske], Polish poet, X. 37.

*Kock*, Charles Paul de, French novelist and dramatist, X. 37. Henri de, 1 c.

*KOEKKOEK*, Bernard Cornelis [kook'-kook], Dutch painter, X. 37. Marianus, Adrian, and Herman, 2 a.

*KOENIG*, Heinrich Joseph [kô-'ni'h], German novelist, X. 37.

*Koffee Calcalli*, king of Ashantee, VII. 82, 1 b.

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*KOHL*, Johann Georg [kole], author, X. 37.

*KOHLRAUSCH*, Heinrich Friedrich Theodor [kole'-rowsb], author, X. 38.

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*Köktash*, stone supporting Tamerlane's throne, XIV. 589, 1 a.

*KOLA*, town of Russia, X. 38.

*KOLAPOOR*', state of India, X. 38. Capital, 1 c. (Fuller information under COLAPOOR.)

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*KOLB*, Georg Friedrich [kölp], German journalist and author, X. 38.

*KOLBE*, Adolf Wilhelm Hermann [kole'-bëh], chemist, X. 38.

*KOLBE*, Karl Wilhelm, painter, X. 38.

*KOLBERG*: see COLBERG.

*KÖLCSEY*, Ferencz [kôl'-chëh-e], Hungarian author, X. 38.

*KOLDEWEY*, Karl [kole-dëh-vî'], German explorer, X. 39.

*KOLDING* [kole'-ding], town of Denmark, X. 39.

*Koldinghuus* [-hooc], castle, X. 39, 1 a.

*Kolees*', a race in India, IX. 215, 1 b.

*Koliades*, *Constant* [kül-lyä-dace], nom de plume, X. 283, 2 b.

*KOLIN*, town of Bohemia, X. 39.

*KOLLAR*, Jan, Slavic scholar and poet, X. 39.

*KÖL'LIKER*, Rudolf Albert, German physiologist and microscopist, X. 39. Observations on the eye, alluded to, VII. 47, 1 c. Classification of mollusca, XI. 51, 1 b. Description of the actinophrys, I. 515, 2 b.

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*Kolokol*, Russian journal, VIII. 702, 2 b.

*KOLOMNA*, town of Russia, X. 39.

*KOLOSHES*, Indian tribes, X. 39.

*Kol'poda*, animaleules, I. 515, 1 e.

*Kols*, a people of India, IX. 214, 2 bc.

*Κολυβήθρα*, baptistery, II. 292, 1 a. \*

*Komandorski islands*, I. 274, 2 c.

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*Komisar'off*, Russian peasant, I. 284, 2 c.

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*KONGSBERG*, town of Norway, X. 40.

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*KONIEH* [ko'-ne-ëh], Asia Minor, X. 40 (view).

*König, Friedrich*, printing pressof, XIII. 853, 1 a.

*KÖNIGGRÄTZ* [kô'-nig-graits], town of Bohemia, X. 41. Battle of, 1 b: see SADOWA.

*KÖNIGINNOF* [kô'-ne-ghin-hof], town of Bohemia, X. 41. Manuscript of Königinhof, 1 bc; VIII. 441, 1 b.

*Königs lake*, Bavaria, II. 550, 1 c.

*KÖNIGSBERG* [kô'-niks-bäirg], city of Prussia, X. 41. Cathedral, 2 b (ill.). University, 2 c.

*KÖNIGSHÜTTE* [kô'-niks-hüt-tëh], town of Prussia, X. 42.

*KÖNIGSMARK*, Philip Christopher, count of, Swedish adventurer, X. 42. Maria Aurora, 1 c; II. 116, 1 e. Referred to, IV. 304, 2 b.

*KÖNIGSTEIN*, Saxony, X. 42. Fortress of, 2 a.

*Koodaga*, a race of India, IX. 215, 2 c.

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*Koomassie*, capital of Ashantee, X. 42. King's palace, 2 c (ill., 43). See GOLD COAST, VIII. 88, 2 b.

*Koomiah*, crocodile, VII. 611, 1 a.

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*Koos*, a race of India, IX. 220, 1 a.

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*Kopp*, II. [kup], (Hermann, born 1817, collaborator of Liebig and Wöhler, his investigations in chemistry, IV. 369, 1 b.

KOPP, Joseph Eutyeh, Swiss historian, X. 43.

*Koppa*, in Greek alphabet, I. 349, 1 b.

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*Kopp's brown*, color, XII. 134, 2 bc.

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*Koraqua*, African race, IX. 9, 1 c.

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*Koriaks*, Siberian tribe, XV. 598, 2 a.

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*Kosciusko*, county seat, II. 92, 2 a.

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*Kōso'vo*, battles of, I. 446, 1 a, 2 c.

*Kosso*: see KOOSO.

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KOSSUTH, Lajos [kosh'-oot], Hungarian patriot, X. 49. His confinement at Kutaieh, 66, 1 a. Batthyányi's opinion of him, II. 393, 1 c.

*Koster*: see COSTER.

KOS'TROMA, government of Russia, X. 51. Capital city, 52, 1 a. Interior of the church of the Holy Trinity (ill.), 51.

*Kosztá*, Martin, case of, IX. 280, 2 c; I. 327, 1 c.

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*Ko Tha-byoo* [ko t'há-byoo'], Karen preacher, II. 765, 1 b.

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*Koto*, Japanese stringed instrument, IX. 53, 1 c.

KOTSCHY, Theodor [kut'-che], German botanist, X. 52.

KOTTBUS [kut'-boos], town of Prussia, X. 52.

KOTZBUE, August Friedrich Ferdinand von [kut'-sēh-boo], German dramatist, X. 52. Otto von, Russian traveller, 53, 1 c. Moritz von, soldier, 2 ab. Paul, soldier, 2 bc. Alexander von, painter, 2 c.

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*Koyunjik* [ko-yoon-jeek'], mound: see NINEVEH, XII. 456, 2 b; 457, 1 a, c, 2 b. Palace of, II. 36, 1 b, c; inscribed tablets, *ib.* Entrance to (ill.), XII. 458.

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*Krait* [krite], snake of India, IX. 204, 1 c.

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*Krakus* [krá'-kooos], Slavic chief, V. 453, 2 a; XIII. 644, 1 b.

*Kral*, royal title in Serbia, XIV. 781, 2 bc.

KRANACH, Lucas: see CRANACH.

*Krapf* (Johann Ludwig, born 1810), Protestant missionary in Abyssinia, I. 48, 2 ab. (Author of works on African geography, languages, &c., in German and English.)

KRASICKI, Ignacy [krá-shits'-ke], Polish prelate, X. 54.

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Kratzenstein [kráts'-en-stine], his theory of fog vesicles, VII. 300, 1 c.

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KRAUTH, Charles Porterfield [krawth; Ger. krowt], American Biblical scholar, X. 55.

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KREGE, Wilhelm Traugott [kroog], German philosopher, X. 58. His definition of philosophy, XIII. 430, 1 a.

KREUMACHER, Friedrich Adolf [kroom'-má-her], theologian, X. 58. Gottfried Daniel, preacher, 2 ab. Friedrich Wilhelm, preacher and author, 2 b.

KRUPP, Alfred [kroop], manufacturer, X. 58. Krupp gun, I. 794, 1 c (ill.).

KRUSENSTERN, Adam Johann von [kroo'-zen-stáirn], Russian navigator, X. 59.

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Kshatriyas [kshát'-re-yas], Hindoo caste, IX. 206, 2 c; 225, 2 c; 230, 2 b.

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Kuanon, Japanese divinity, IX. 539, 1 a.

KUBAN [koo-bán'], Caucasian territory, X. 59.

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Kubir [koo-beer'], desert, Persia, IX. 823, 1 a.

KUBLAI KHAN [koo'-bli kán], conqueror of China, X. 59. Patron of Lamaism, 115, 2 a.

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Küchenmeister [kü'-hen-mice-ter], his experiments on the cause of tapeworm in man, VI. 665, 2 b.

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Kugler, Protestant missionary in Abyssinia, I. 48, 2 a.

Kuhlmann, Prof. F. [kool'-mán], on the action of alkaline silicates upon limestones and chalk, IV. 182, 1 ab.

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KÜNSE, Gustav [kü'-nèh], novelist, X. 60.

KÜHNER, Raphael, philologist, X. 61.

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Ku-Klux Klan, secret organization, XII. 497, 2 a.

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KUMISS [koo'-mis], liquor, X. 62; VI. 141, 2 b.

Kumneh, Egyptian fortress, VI. 749, 1 c.

Kunchancee, Hindoo dancing girl, II. 405, 1 a.

KUNERSDORF [koo'-nerce-dorf], village of Prussia, and battle of, X. 62.

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Kunigunde, empress [koo-ne-goon'-dèh]: see Cunegunda (Index).

Kunigunde, princess, VIII. 296, 2 a.

Kunkur', calcareous nodule, XIV. 352, 1 c. See XII. 738, 2 a (kankar).

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KUOPIO [koo-o'-pe-o], government of Finland, X. 62. Town, 2 bc.

Kupfernickel [koop'-fer-nik-el], false copper, XII. 431, 2 c; 432, 1 b, 2 b.



*Kuprili, Mohammed*, XI. 696, 1 c. Ahmed, 2 a.  
*Kur* [koo], river of Russian Georgia, X. 62.  
*Kurd-Cabool pass*, Afghanistan, I. 161, 2 c.  
*KURDISTAN* [koo-de-stân'], region of Asia, X. 63.  
*Kurds*: see *KURDISTAN*, and IX. 347, 1 b; XIII. 318, 1 b.  
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*Kuriles*, tribe, I. 215, 2 c. Hairy Kuriles, 216, 1 a. See *KURILE ISLANDS*.  
*Kur'pa*: see *CUDDAPAH*.  
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*KURSK* [koorsk], government of Russia, X. 64. Capital city, 2 c.  
*Kurshid Pasha* [koo-sheed' pâ-shâ'], captor of Ali Pasha, I. 311, 1 b, c.  
*KURZ*, Heinrich [koorts], German author, X. 64.  
*KUSKOQUIM RIVER* [koos-ko-kim']: see *ALASKA*, I. 240, 2 bc.  
*Kus-kus* [koos'-koos], grass, XVI. 336, 2 c.  
*KÜSSNACHT* [küs'-nâ'ht], Swiss village, X. 63. Another, 1 b.  
*KUSTENDJI* [koos-ten'-je], Turkey, X. 65.  
*Küs'trin*, town of Prussia, X. 65.  
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*KUTAIS* [koo-tice'], government of Asiatic Russia, X. 66. Town, 1 ab.  
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*Kutch*, of gold leaf, VIII. 86, 2 b.  
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**MORSE**, Jedidiah, geographer, XI. 848. Samuel Finley Breese, artist and inventor, 849, 1 a. Invention of the electric telegraph, 1 c; XV. 611, 2 b: see **JACKSON**, Charles Thomas. Sidney Edwards, journalist. XI. 850, 1 c.  
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**MORTON**, Nathaniel, secretary of Plymouth colony, XI. 854.  
**MORTON**, Samuel George, American physician, XI. 854. On human crania, 855, 1 a; VI. 753, 2 c.  
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**SALVAGE**, XIV. 586. Salvage services, who can perform them, 1 c; when possible, 2 c; when not admitted as such, 587, 1 bc. Subjects of salvage, 1 ab. Forfeiture of, 1 c. Military salvage, 2 ab. Right of insurers, IX. 319, 1 ab.

**SALVANDY**, Narcisse Achille de, count [sál-vá'-de], French author, XIV. 587.

**Salva'tor** (zoology), XI. 749, 1 c.

**SALVATOR ROSA** [sál-vá'-tor]: see **ROSA**.

**SALVI**, Giambattista: see **SASSOFERRATO**.

**SALVIA:** see **SAGE**, XIV. 518, 1 c, 519, 1 a. *S. officinalis*, 518, 1 c (ill.); *tricolor*, 2 bc; *sclarea*, 2 c; *splendens*, 519, 1 a; *fulgens*, *coccinea*, *patens*, and *argentea*, 1 ab; *azurea*, *Pitcheri*, and *farinosa*, 1 b.

**SALVINI**, Tommaso [sál-vé'-ne], Italian actor, XIV. 587.

**Salyersville**, county seat, XI. 22, 1 b.



SALZACH [zálts'-â'h], or Salza, river: see SALZBURG, XIV. 588, 1 a.

SALZBURG [sawltz'-burg; Ger. zálts'-boorg], duchy of Austria, XIV. 588. History, 1 b. Capital city, 1 c.

*Salzwedel*, mark of [zálts'-vū-del], III. 209, 2 ab.

SAMANA [sā-ma-nā'], bay and peninsula of: see SANTO DOMINGO, XIV. 622, 1 b, 624, 1 a, ab; BAEZ, II. 214, 1 b.

*Samani* [sā-mā'-ne], Persian family of, XIII. 323, 1 c.

SAMAR [sā'-mar]: see PHILIPPINE ISLANDS, XIII. 417, 2 a.

SAMARA [sā-ma-rā'], government of Russia, XIV. 588. Capital city, 2 b.

SAMARANG, province of Java, XIV. 588. Capital city, 2 c.

SAMARCAND', city of Asia, XIV. 588.

SAMARIA, ancient city of Palestine, XIV. 589.

*Samaritan Pentateuch*, XIV. 590, 1 ab. Manuscript copy of (Samaritan Codex): see NABULUS. Hebrew text of the Pentateuch, 1 b.

SAMARITANS, XIV. 589; XV. 546, 2 bc; VIII. 589, 1 c.

*Samarobri'va*, ancient town, I. 425, 2 a.

*Sambaquis* [sā<sup>re</sup>-bā'-kees], Brazilian shell mounds, III. 222, 2 a.

*Sambenito* [sām-bā-nē'-to], habit of the inquisition penitents, IX. 294, 2 c; 295, 1 b.

*Samboo*, Asiatic deer, V. 757, 2 a, c.

*Sambre* [sā<sup>re</sup>-br'], river, II. 488, 1 c; XII. 480, 2 b.

*Sambu'cus* (botany), VI. 495, 1 c. S. Canadian-sis, *ib.* (ill.); laciniata, 2 b (ill.); pubens, 2 c.

*Samcocolo*, town of Bondoo, III. 57, 2 bc.

SA'ME: see CEPHALONIA, IV. 206, 1 c.

*Samian ware*, pottery, XIII. 780, 2 b.

*Samian wine*, VIII. 217, 1 ab.

*Samiel*: see SIMOOM.

*Samisen*, musical instrument, IX. 537, 1 bc.

*Samlingsbanke*, hill of, X. 39, 1 b (KOLDING).

*Sammicheli* [sām-me-kā'-le], (Michele, 1484-1549), engineering works of, XVI. 322, 2 ab; X. 320, 2 b (San Micheli). Architectural works, XVI. 323, 1 a.

*Sammied*, in tanning, X. 275, 1 c.

*Sammuramit*, Assyrian queen, XIV. 760, 1 a, b.

*Samnites*, Italic race, IX. 439, 2 bc.

*Samnite wars*: see ROME (Index).

SAMNIUM, division of ancient Italy, XIV. 590.

SAMOAN ISLANDS, in the S. Pacific, XIV. 590.

*Samogitia*: see KOVNO, X. 54, 1 ab.

*Samogitian dialect*, referred to, X. 374, 1 b.

*Samos*: see CEPHALONIA.

SAMOS, island, XIV. 592. Prince of, 2 b.

*Samos'ata* (ancient capital of Commagene, Syria, on the Euphrates), Paul of: see PAUL OF SAMOSATA.

SAMOTHEA'CE, island, XIV. 592.

SAMOYEDS', nomadic people of Russia, XIV. 592; XVI. 42, 1 b.

*Samp*: see MAIZE, XI. 43, 2 c.

*Sampfen wood*, III. 233, 1 a (BRAZIL WOOD).

SAMPHIRE, plant, XIV. 593 (ill.). Marsh samphire, 2 a (ill.).

SAMPSON, county, XIV. 593.

*Sam Slick*, nom de plume, VIII. 391, 2 c.

SAMSON, judge of Israel, XIV. 593.

SAMSON, George Whitfield, American clergyman, XIV. 594.

SAMSON, Joseph Isidore [sā<sup>re</sup>-sō<sup>re</sup>], French actor, XIV. 594.

*Samsun* [sam-soon']: see MYCALE.

SAMUEL, Hebrew prophet, XIV. 594.

SAMUEL, Books of, XIV. 594.

*Samuel*, king of Bulgaria, II. 362, 1 a.

*Samurai* [sā-moo-rī'], Japanese gentry, IX. 545, 1 b; 546, 2 a.

SANA [sā-nā'], city of Arabia, XIV. 594.

*San Andreas*, county town, III. 567, 1 c.

SAN ANTONIO, city of Texas, XIV. 595.

SAN ANTONIO RIVER, XIV. 595.

SAN AUGUSTINE, county, XIV. 595. Capital, 2 b.

SAN BENITO [bā-nē'-to], county, XIV. 595. Capital, 2 c.

SAN BERNARDINO [ber-nar-dē'-no], county, XIV. 595. Capital town, 596, 1 a. Mount, *ib.*; III. 599, 2 b.

*San Buenaventura* [bwā-na-ven-too'-ra], county seat, XVI. 302, 1 a.

*San'cho the Strong*, of Castile, I. 296, 1 a; X. 81, 1 ab, bc, c.

*Sanchoniathon*: see SANCHUNIATHON.

SANCHUNIATHON [san-koo-nī'-a-thon], reputed author, XIV. 596.

*Sanci diamond*, referred to, IV. 311, 1 a.

*San Clemente de la Nueva Sevilla*: see SALTA, XIV. 580, 2 c.

SAN CRISTÓBAL, capital of Chiapas, XIV. 596.

SANCROFT, William, English prelate, XIV. 596.

*Santa sanctorum*, in the church of the Lateran, X. 183, 1 a.

*Sanct-Ingbert*: see INGBERT.

SANCTUARY: see ASYLUM.

*Sanctuary*, of the tabernacle, XV. 550, 2 c.

*Sand, facing*, in casting moulds, IV. 76, 1 b.

SAND, George [sā<sup>re</sup>]: see DUDEYANT.

SAND, Karl [zānt], German political fanatic, XIV. 596.

- Sandal*: see SHOE, XIV. 873, 1 b.  
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*Sand bear* (Indian badger), II. 213, 1 b.  
 SAND BLAST, XIV. 597. In rock blasting, II. 697, 2 b.  
 SAND CRAB: see CRAB, V. 450, 1 a.  
 SANDEAU, Léonard Sylvain Jules [sâ<sup>ne</sup>-dô], French author, XIV. 597.  
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*Sandeman, Robert*: see SANDEMANIANS, XIV. 598, 1 a.  
 SANDEMANIANS, religious sect, XIV. 597.  
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*Sanderson*, county seat, II. 228, 1 c.  
*Sandersville*, county seat, XVI. 474, 1 b.  
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*Sand fly*: see BLACK FLY.  
*Sand glass*, for measuring time, IV. 695, 2 b.  
 SAND GROUSE: see GROUSE, VIII. 272, 1 bc.  
*Sand gulfs*, in central Arabia, I. 619, 1 b.  
 SANDHURST, city of Australia, XIV. 598.  
 SAN DIEGO [de-â'-go], county, XIV. 598.  
 SAN DIEGO, city of California, XIV. 599.  
*Sandiver*, in glass making, VIII. 14, 1 a.  
 SAND LAUNCE: see EEL, VI. 448, 1 a.  
 SAND MARTIN: see SWALLOW, XV. 499, 2 ab.  
 SAN DOMINGO: see SANTO DOMINGO.  
*Sandomir* (town of Poland, on the Vistula), synod of, referred to, XIV. 248, 2 c.  
 SANDOVAL, Prudencio de, Spanish historian, XIV. 599.  
 SANDPIPER, bird, XIV. 599. Purple, 2 a; red-backed, 2 ab; least, 2 c (ill.). Bartram's sandpiper, XIII. 619, 1 c. Bird so called, XV. 583, 1 bc.  
*San Donato, prince of*, V. 792, 1 ab (DEMIDOFF).  
*Sandracothus*, king of Maghada, IX. 207, 1 bc.  
 SANDEART, Joachim von, German painter, XIV. 599.  
 SANDS, Robert Charles, American author, XIV. 600.  
*Sands, the*, a market place, VI. 309, 2 c.  
*Sand sea*, plain, VIII. 60, 2 a (Gobi).  
*Sand star*, star fish, XII. 644, 1 a.  
 SANDSTONE, rock, XIV. 600; V. 240, 2 a. Lower, X. 252, 1 b; upper, or St. Peter's, 1 c. Old red sandstone, VII. 697, 1 a; new red, 1 c.  
*Sand storms*, in the Sahara, I. 165, 1 bc, 2 a.  
 SANDUSKY, county, XIV. 600.  
 SANDUSKY, city of Ohio, XIV. 601.  
*Sandusky river*, VI. 713, 1 a; XIV. 600, 2 c. Bay, 601, 1 ab.

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 SANDWICH, town of Massachusetts, XIV. 601.  
*Sandwich*, county seat, VI. 735, 1 c.  
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*Sandwirth* [zânt'-veert]: see HOFER, VIII. 753, 2 b.  
*Sandy Hill*, county seat, XVI. 473, 1 c.  
*Sandy Hook*, New York bay, XII. 384, 1 ab. (See map.)  
*Sandy Hook*, county seat, VI. 545, 1 b.  
*Sandy river*, Big, Kentucky, IX. 798, 1 c.  
 SANDYS, Sir Edwin, English statesman, XIV. 601. George, poet, 2 c.  
*San Felipe de Austria* [sân fâ-le'-pâ dâ ows'-tre-a], (Oruro), XII. 713, 2 b.  
*San Felipe de Lerma* [lâir'-ma], (Salta), XIV. 580, 2 c.  
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*San Fernando*, citadel or castle of, VII. 184, 1 b.  
 SANFORD, county, XIV. 602.  
 SAN FRANCISCO, city of California, XIV. 602. Description, 1 c; city hall, 603, 1 a (ill.). Population, 1 c. Intercommunication, 2 c. Business, 604, 1 a. Government, &c., 2 a. History, 2 c. Fires in, 605, 2 bc; V. 237, 1 c; III. 613, 2 a. Vigilance committees in, III. 613, 1 bc.  
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*San Francisco de Asis* [dâ â-seece'], mission of, XIV. 604, 2 c.  
 SAN'GAMON, county, XIV. 605.  
*San Giovanni in Fonte* [jo-rân'-ne in fon'-tâ], baptistery or church of, Rome, X. 183, 2 ab.  
*Sangler* [sang'-gle-er; Fr. sâ<sup>ne</sup>-gle-â], II. 764, 2 a (BOAE).  
*Sang-de-rate* [sâ<sup>ne</sup>-düh-rât], disease of sheep, XII. 60, 2 c.  
*San gréal* [sâ<sup>ne</sup> grâ-âl]: see GRAAL.  
 SANGUINARIA: see BLOODROOT, II. 738, 2 bc (ill.).  
*Sanguinaria*, alkaloid, VIII. 544, 2 a.  
*Sanguinarine* [sang-gwin'-a-rin], alkaline principle, II. 739, 1 c.  
*Sanguis'uga* (zoölogy), X. 310, 1 a. S. medicinalis or officialis, 2 ab (ill.).  
 SAN'HEDRIM, Jewish supreme council, XIV. 605.  
*Sanic'ula Canadensis*, *S. Marilandica* (botany), XV. 131, 1 ab.  
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*San Ildefonso*: see LA GRANJA. League of, XV. 213, 1 bc.  
 SAN JACINTO, river of Texas, XIV. 606. Battle of, 1 bc; IX. 16, 2 c; XV. 678, 1 bc.  
 SAN JACINTO, county, XIV. 606.

*Sanjak*, political division in Turkey, XVI. 59, 1 c. See VILAYET.

*Sanjakbeg*, Turkish officer, XIV. 662, 2 c.

SAN JOAQUIN [hwá-keen'], river of California, XIV. 606.

SAN JOAQUIN, county, XIV. 606.

SAN JOSÉ [ho-sá'], city of California, XIV. 606.

SAN JOSÉ, capital of Costa Rica, XIV. 607.

SAN JUAN [hwán], island, Washington territory, XIV. 607.

*San Juan*, island: see GUAHAN.

*San Juan de la Frontera* [sán 'hwán dā lá frone-tā'-ra]: see CHACHAPOYAS.

SAN JUAN DE NICARAGUA, port, XIV. 607; XII. 421, 1 c, 424, 2 ab, 425, 2 ab.

*San Juan del Norte* [dail nore'-tā]: see SAN JUAN DE NICARAGUA (Index).

SAN JUAN DE PUERTO RICO, city, XIV. 608.

*San Juan distriet*, Rocky mountains, XIV. 377, 2 b.

SAN JUAN RIVER: see NICARAGUA, XII. 421, 2 a.

*San Julian de Peyrero*, knights of, I. 260, 1 a.

*Sānkhyā* [sán'-kya], Hindoo system of philosophy, IX. 227, 2 b, c. Kapila's, 228, 1 a.

*San Lazaro* [sán lá'-tsa-ro], Venetian island, Armenian monastery upon, XI. 364, 2 b; XVI. 297, 2 c.

*San Leandro*, county seat, I. 236, 1 b.

SAN LUCAR DE BARRAMEDA [sán loo'-kar dā bár-ra-mā'-tha], city of Spain, XIV. 608.

SAN LUIS [loo-eece'], province of the Argentine Republic, XIV. 608. Capital city, 1 c.

SAN LUIS OBISPO, county, XIV. 608. Capital, 2 b.

*San Luis park*, Colorado, V. 101, 1 b; XIV. 377, 2 a, 380, 1 b (valley).

SAN LUIS POTOSÍ [po-to-sē'], state of Mexico, XIV. 608. Capital city, 2 b.

*San Luis de la Punta* [dā lá poon'-ta]: see SAN LUIS, XIV. 608, 2 a.

*San Luiz de Maranhão* [sán loo-eece' dā má-rá-nyow<sup>ae</sup>], city, XI. 143, 1 c.

*San Mareo*, fortress, St. Augustine, XIV. 525, 1 b.

*San Marcos* [-koe], county seat, VIII. 548, 1 b.

SAN MARINO [má-re'-no], republic of Italy, XIV. 608. Capital, 609, 1 a. Referred to, IX. 451, 2 ab.

*San Martin* [mar-teen'], volcano, XI. 466, 1 ab. SAN MARTIN, José de, Argentine general, XIV. 609.

*San Martini* [mar-tē'-ne], Italian composer, VIII. 542, 2 bc.

*San Martino*, Este, leaning belfry of, VI. 739, 1 c.

SAN MATEO [má-tá'-o], county, XIV. 609.

*San Mateo del Pilon*: see MORELOS, XI. 825, 2 c.

*San Michele* [me-kā'-lá], hospital of, XII. 579, 2 c.

*San Micheli*, architect: see *Sammicheli* (Index).

SAN MIGUEL [me-ghél'], county, XIV. 609.

SAN MIGUEL [me-gail'], city of San Salvador, XIV. 609.

*San Miguel*, city: see PIURA, XIII. 557, 2 c.

SAN MIGUEL, Evariste, duke de, Spanish general, XIV. 609.

SANNAZARO, Jacopo [sán-ná'-dza-ro], Italian poet, XIV. 609.

*San Pablo bay*, California, XIV. 605, 2 b.

SAN PATRICIO [pá-trē'-se-o], county, XIV. 609. Capital, 2 c.

SAN PETE [pá'-tā], county, XIV. 609.

*San Petronio*, basilica of, Bologna, III. 18, 1 c.

*Sanguhar declaration* [san'-kwâr], III. 656, 1 c (CAMERONIANS).

*San Rafael*, county seat, XI. 167, 1 c.

SAN REMO [rá'-mo], town of Italy, XIV. 610.

SAN ROQUE [ro'-ká], city of Spain, XIV. 610.

SAN SABA [sá'-ba], county, XIV. 610. Capital, 1 b.

SAN SALVADOR' [Sp. sál-va-thore'], republic of Central America, XIV. 610. History, 611, 1 a. Capital city, 1 c.

SAN SALVADOR, island, Bahamas, XIV. 611.

SAN SALVADOR, city of Brazil: see BAHIA.

*Sansam*, mixed oriental race, XI. 59, 2 a.

*Sansara* [san-sá'-ra], in Buddhism, III. 398, 2 ab.

*Sansculottides* [sâ<sup>ae</sup>-kū-lut-teed], in the French revolutionary calendar, III. 580, 1 c.

SAN SEBASTIAN [sā-bās-te-ân']: see SAINT SEBASTIAN.

SANSKRIT, literary language of the Hindoos, XIV. 611. Written character, 612, 1 b. Euphonic rules, 2 a. Accents, 2 b. Grammar, 2 bc, 615, 1 b. Metre, 614, 1 a. Literature, 1 ab. Sanskrit grammars, 615, 2 b. Dictionaries, 2 bc.

*Sanskrit college*, in Benares, II. 515, 1 a.

SANSON, Nicolas [sâ<sup>ae</sup>-sō<sup>ae</sup>], French geographer, XIV. 616.

*San Stefano* [stā'-fa-no], church of, Bologna, III. 18, 1 c.

SANTA ANA [sán'-ta á'-nyá], county, XIV. 616.

*Santa Ana de Tamaulipas*: see TAMPICO.

*Santa Anna*, island: see BANANAL.

SANTA ANNA, Antonio Lopez de, Mexican general, XIV. 616; I. 235, 2 c; IX. 16, 2 c; XI. 477, 1 c. 2 bc, c, 478, 1 bc, 479, 2 a; XV. 677, 2 b, bc, 678, 1 ab, c, 2 b. (Died 1876.)

SANTA BARBARA, county, XIV. 617. Capital, 1 c.

*Santa Barbara*, island of Brazil, III. 218, 1 c.

SANTA CATHARINA [ká-ta-ré'-na], province of Brazil, XIV. 617. Capital: see DESTERRO.

SANTA CLARA, county, XIV. 617.  
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*Santa Clara*: see CHRISTMAS, IV. 552, 1 b.  
*Santa Croce* [kro'-châ], church of, in Florence, VII. 275, 2 c.  
 SANTA CRUZ [krooss], county, XIV. 617.  
*Santa Cruz*, county seat, XIV. 618, 1 a.  
 SANTA CRUZ, island, West Indies, XIV. 618.  
 SANTA CRUZ, capital of the Canary islands, XIV. 618.  
 SANTA FÉ [fâ], Argentine province, XIV. 618.  
 SANTA FÉ, county, XIV. 618.  
 SANTA FÉ, capital of New Mexico, XIV. 618 (ill.).  
 SANTA FÉ DE BOGOTÁ: see BOGOTÁ.  
*Santal*, tribe in India, IX. 214, 2 c.  
*Santal'ic acid*, XIV. 597, 2 a.  
*Santaline* [san'-ta-lin]: see *Santal'ic acid* (Index).  
*Santalum* (botany), XIV. 596, 2 bc. S. album, 2 c (ill.).  
 SANTA MARIA [mâ-ré'-a], city of Spain, XIV. 619.  
*Santa Maria de la Almudena* [dâ lâ âl-moo-thâ'-na], church in Madrid, X. 835, 1 c.  
*Santa Maria del Fiore* [fe-o'-râ], duomo of Florence, VII. 275, 1 ab.  
*Santa Maria Maggiore* [mâd-jo'-râ], church of, in Bergamo, II. 555, 1 b; in Rome, XIV. 414, 2 a.  
*Santa Maria Matricolare* [mâ-tre-ko-lâ'-râ], cathedral of, Verona, XVI. 322, 2 bc.  
 SANTA MARTA, city of Colombia, XIV. 619.  
 SANTA MAURA [mow'-ra], island, XIV. 619.  
*Santana, Pedro* [sân-tâ'-na], president of Santo Domingo, XIV. 623, 2 ab, ff. (Died 1864.)  
 SANTAN'DER [Sp. sîn-tân-thâir'], province of Spain, XIV. 619. Capital city, 620, 1 a.  
*Santander* (Francisco de Paula de, 1782-1840), S. American patriot, III. 8, 2 b, c; 9, 1 a, bc, c, 2 c; V. 89, 1 a.  
 SANTAREM [sâ'-ta-rê'-er'], town of Portugal, XIV. 620; I. 297, 1 c.  
 SANTA ROSA, county, XIV. 620.  
*Santa Rosa*, county seat, XV. 165, 1 a.  
*Santa scala*, in the Lateran, X. 182, 2 c.  
 SANTEE', river of South Carolina, XIV. 620.  
 SANTERRE, Antoine Joseph [sâ'-tâir], French revolutionist, XIV. 620.  
 SANTIAGO [sân-te-â'-go], province of Chili, XIV. 620. Capital of the province and of Chili, 2 b.  
 SANTIAGO, Argentine province, XIV. 621.  
 SANTIAGO DE COMPOSTELA [dâ kome-poce-tâ'-la], city of Spain, XIV. 621.  
 SANTIAGO DE CUBA, city of Cuba, XIV. 621.

*Santiago de Leon de Cardeas*, city, III. 765, 1 c.  
*Santiago del Estero*: see SANTIAGO, XIV. 621, 1 b.  
*Santiago del Nuevo Extremo*, city, XIV. 621, 1 b.  
 SANTIAGO DE LOS CABALLEROS [dâ loce kâ-bâ-lyâ'-roce], city of Santo Domingo, XIV. 621.  
 First name of Old Guatemala, VIII. 292, 1 b.  
 SANTILLANA, Marquis de [sân-te-lyâ'-na]: see MENDOZA.  
 SANTO DOMINGO, republic, West Indies, XIV. 622. Physical features: see HATTI. Boundaries and extent, 1 ab. Harbors and bays, 1 b. Soil and productions, 1 bc. Fauna, 1 c. Minerals, 2 a. Climate, 2 b. Population, 2 bc. Religion, 623, 1 a. Education, 1 ab. Commerce, 1 b. Government, 1 bc. Army and navy, 2 ab. History, *ib.* Proposed annexation to the United States, 624, 1 ab; VIII. 160, 1 b.  
 SANTO DOMINGO, city, XIV. 624. Cathedral, 2 a (ill.). History, 2 b.  
*Santones* [san'-to-nee]: see SAINTES.  
*Santonine* [san'-to-min], drug, XVI. 731, 1 ab; VI. 670, 2 b.  
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 SANTORINI, Giovanni Domenico [sân-to-rê'-ne], Italian anatomist, XIV. 624. Cartilages of, 2 c.  
*San Vitale, Eleonora* [ve-tâ'-lâ], referred to, VI. 517, 2 c.  
*San Zenone*, church of, in Verona, XVI. 322, 2 c.  
*Sanzio, Raffaele* [sân'-tse-o]: see RAPHAEL.  
*São Felipe de Benguela* [sow'-fâ-lê'-pâ dâ bengâ'-la], capital city, II. 527, 1 b.  
 SÃO FRANCISCO, river: see BRAZIL, III. 220, 1 c.  
*Saonechiogwa*, Indian chief, IV. 161, 2 a.  
 SAÔNE [soan], river of France, XIV. 625.  
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 SAÔNE-ET-LOIRE [-â-lwâr], department, XIV. 625.  
 SÃO PAULO [sow'-pow'-lo], province of Brazil, XIV. 625. Capital city, 2 a.  
 SÃO PEDRO DO RIO GRANDE DO SUL [sow'-pâ-dro do rê'-o grân'-dâ do sool], province of Brazil, XIV. 625. City, 626, 1 a.  
 SAP: see PLANT, XIII. 582, 2 bc (movement of liquids); FUEL, VII. 515, 2 c. Circulation of, in plants, I. 194, 2 ab. Crude sap, XIII. 575, 1 c; 582, 1 ab. Green sap (pigment), III. 390, 2 bc.  
*Sap*, in a siege, XV. 29, 2 b.  
 SAPAJOU [sap'-a-joo]: see MONKEY, XI. 750, 2 c. Horned, 751, 1 bc.  
 SAPAN WOOD, a dyewood, XIV. 626; III. 232, 2 c.  
*Saphra*, in Jewish literature, VIII. 595, 1 a.  
*Sapienza, college of* [sâ-pe-en'-dza], (university of Rome, so named from its inscription,

- Initium sapientiæ timor Domini*, I. 280, 2 b ; XVI. 210, 2 c. See X. 347, 1 c.
- Sapindus saponaria* (botany), XV. 138, 2 a.
- Saponaria officinalis* (botany), XV. 138, 2 a.
- Saponifiable fats*, II. 729, 2 a.
- Saponification*, XV. 138, 2 c.
- SAPOR*: see PERSIA, XIII. 322, 2 b.
- Sappers*, in a siege, XV. 29, 2 b.
- SAPPHIRE* [saf'-fer, or saf'-fire], precious stone, XIV. 626. Blue sapphire, 2 a ; red, or ruby, 2 ab ; violet, 627, 1 a. Artificial sapphires, 1 b.
- SAPPHO* [saf'-fo], Greek poetess, XIV. 627.
- Sappho, the German*, so called, IX. 770, 1 a.
- Saps*, a color, VII. 185, 2 b.
- Sapsucker*, bird, XVI. 709, 2 a.
- Saptin river*: see SNAKE RIVER.
- Saptins*: see SAHAPTINS.
- Sapucaia*, tree, III. 223, 2 c. Sapucaia nuts, *ib.*
- Sap wood*, of a tree, XIII. 580, 1 bc ; I. 259, 1 b.
- Sar*: see Czar, V. 622, 2 a.
- Sarabaitæ*, ancient ascetics, XI. 729, 1 b.
- Saracen'ic architecture*, I. 661, 2 c.
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- Sarah Sands*, a gold nugget, VIII. 73, 1 a.
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- Sarakatzanes*, nomadic tribe, I. 55, 1 bc.
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- Sarasvatî* [sä-räs-vä'-tē], Hindoo goddess, IX. 224, 2 b ; 226, 2 a ; 230, 1 a.
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*Sark*, Channel island, IV. 261, 2 c.

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*Sarmatic pass*, of the Caucasus, IV. 133, 1 c.

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*Sarts*, race, IX. 820, 2 c (according to Vámbéry); XVI. 67, 1 c, 239, 2 b (more correctly, according to Shaw and Schnyler).

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*Sauco'na*, river: see SAÔNE.

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SAVAGE, Richard, English poet, XIV. 644.

*Savage, Dr. T. S.* (American missionary), discoverer of the gorilla, VIII. 115, 2 c, ff.

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*Savery, Thomas*, steam engine of, XV. 339, 2 b.

SAVIGNY, Friedrich Karl von [sä-vē'-nyē], German jurist, XIV. 647.

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*Savitri* [sä-vē'-tre], in Hindoo theology, IX. 223, 2 bc; 225, 1 a.

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*Savonarola, Don Jeremy*, pseudonyme, XI. 26, 2a.

*Savonnerie* [sä-vün-rē], carpet manufactory, Paris, IV. 160, 1 c.

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*Savoy, St. Mary le*, church, London, X. 598, 1 bc.

*Savoy conference*, London, V. 154, 2 bc.

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SAXE, John Godfrey, American author, XIV. 654.

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*Saxicava sand*, VI. 111, 2 c.

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- Saxif'raga* (botany), XIV. 656, 1 bc. *S. Virginien'sis*, 1 c (ill.); *Pennsylvanica*, 2 b; *crassifolia*, 2 c (ill.); *umbrosa*, *ib.*; *peltata* and *sarmentosa*, 657, 1 a. Leaves of *S. crassifolia* a substitute for tea, I. 358, 2 b.
- SAX'IFRAGE, plant, XIV. 656. Early or Virginian, 1 c (ill.); swamp, 2 b; thick-leaved, 2 c (ill.); umbrella, 657, 1 a. Beefsteak and strawberry geranium, &c., *ib.*
- Saxnot*, in Saxon mythology, XII. 120, 1 c.
- SAXO GRAMMATICUS, Danish historian, XIV. 657. His history of Denmark, I. 33, 2 b; VI. 17, 2 a.
- Saronia Transalbiana*, VIII. 772, 2 a.
- SAXONS, XIV. 657; VII. 739, 1 b. Saxon dynasty in Germany, 753, 1 a. Saxon architecture, I. 661, 1 b; 662, 2 a.
- Saxons*, in Transylvania, XV. 846, 2 a, ab. Land of the, 2 bc.
- Saxon Switzerland*, XIV. 658, 1 a.
- SAXONY, kingdom of Germany, XIV. 657. Government, 658, 1 bc. History, 2 a.
- SAXONY, province of Prussia, XIV. 659.
- Saxony blue*, in dyeing, VI. 341, 2 bc.
- SAXTON, Joseph, American inventor, XIV. 659. His metallic thermometer (for ocean depths), II. 74, 2 a.
- SAY, Jean Baptiste, French political economist, XIV. 659; XIII. 671, 1 ab. Horace Émile and Léon, XIV. 660, 1 a.
- SAY, Thomas, American naturalist, XIV. 660.
- Sayanian range*, Altai mountains, I. 358, 1 c.
- Saybrook* (post township and village, Conn., on Long Island sound), origin of the name, VII. 132, 1 c. First seat of Yale college, XVI. 763, 2 b. Saybrook synod (of Congregationalists, authors of the Saybrook platform), V. 244, 2 b.
- Sayer's plot*, alluded to, III. 174, 1 c.
- Sayornis fuscus* (ornithology), XIII. 376, 1 b (ill.).
- SCABARD FISH, XIV. 660. Silvery hair-tail, 1 c (ill.).
- Seabeccio* [ská-bet'-cho], preserved tunny, VII. 228, 2 bc.
- Scabics* [ská'-be-eez]: see ITCH.
- SCAEVOLA, Caius Mucius [scv'-o-la], legendary Roman hero, XIV. 660; XIII. 721, 1 a. Quintus Mucius, the augur, XIV. 660, 2 b. Quintus Mucius, the pontifex, *ib.*; X. 193, 2 c.
- SCALA [ská'-la], noble Italian family, XIV. 660.
- Scalaria* (mollusca), XVI. 553, 2 a. *S. Greenlandica*, 2 ab. *S. pretiosa*, 2 b (ill.).
- SCALD [skawld]: see BURNS AND SCALDS.
- Scalds*, river: see SCHELDT.
- Scalds* [skálds], Scandinavian bards, II. 307, 1 a; IX. 155, 1 bc (skalds).
- SCALE, a graduated line, XIV. 661; XVI. 537, 2 c. See GUNTER, and SECTOR.
- SCALE, Musical: see MUSIC, XII. 78, 2 a.
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- SCALES, of fishes: see COMPARATIVE ANATOMY, V. 183, 1 c.
- Scales*, of a lily bulb, X. 267, 1 ab.
- SCAL'IGER, Julius Cæsar, Italian philologist, XIV. 661. Joseph Justus, 1 c.
- Scaligerana*, I. 448, 2 bc (ANA); XIV. 661, 2 ab.
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- Scallions*, XII. 631, 1 bc (ONION).
- SCALLOP [skol'-lup], bivalve, XIV. 661 (ill.).
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- Scalps*, Indian, first brought to Boston, III. 127, 1 ab.
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- SCAMANDER, river of Troas, XIV. 662. See TROY, XVI. 9, 2 c.
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- SCAN'DERBEG, Albanian prince, XIV. 662; I. 244, 2 c.
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- Scapa'nus* (zoölogy), XI. 706, 1 c. *S. aquaticus*, *ib.*
- Scapegrace*, bird, VI. 153, 1 c. \*
- Scape wheel*, of a clock or watch, IV. 696, 2 b.
- Scaphid'rus* (ornithology), VIII. 146, 1 c.
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- SCAP'ULAR, part of a religious habit, XIV. 663. Alleged gift of the Virgin Mary, XI. 218, 1 b.
- Scapulars*, in plumage, VII. 105, 2 c.
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- SCARABÆUS, genus of beetles, XIV. 663 (ill., 664); II. 477, 1 ab. *S. enema* (ill.), *ib.*; *pilularius*, 469, 1 ab; *sacer*, XIV. 60, 1 b, 664, 1 a; *Ægyptiorum*, *ib.*
- SCARBOROUGH, town of England, XIV. 664.
- Scarificator*, in cupping, V. 579, 1 b.
- SCARLATINA: see FEVERS, VII. 170, 1 ab. *S. anginosa*, 1 c. *S. rheumatica*, VI. 8, 2 a.
- SCARLATTI, Alessandro, Italian composer, XIV. 664. Domenico, composer, 1 c.

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*Scaro* [ská'-ro], fish, XIII. 127, 2 bc.

SCARPA, Antonio, Italian anatomist, XIV. 664.

Scarpa's needle, for couching, IV. 102, 1 c.

SCARPANTO, island of Turkey, XIV. 664.

*Scarpe*, in heraldry, VIII. 672, 1 c.

*Scarp walls*, in fortification, VII. 329, 1 bc.

SCARRON, Paul [skär-rōn], French author, XIV. 664. See MAINTENON, XI. 39, 2 b.

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*Scatoph'aga* (entomology), VI. 130, 1 bc. S. stercoraria, VII. 295, 1 b; furcata, ib.

*Scap duck*, VI. 289, 2 ab (ill., 288); III. 733, 2 ab, 734, 1 a.

SCAURUS, Marcus Æmilius, Roman senator and consul, XIV. 664. Officer and peculator, 2 c. Betrayer of Pompey, 665, 1 b. Mamercus, orator and poet, ib.

"*Scavenger's daughter, the*," instrument of torture, XV. 815, 1 b.

*Scelidotherium*, extinct animal, XII. 110, 2 bc.

*Scena*, in a Greek theatre, XV. 685, 2 a.

*Schaaffhausen* [sháf'-how-zen], archæologist, VII. 198, 2 c; 199, 1 a.

*Schabziegerkäse* [sháp'-tse-gber-kā-zēh], IV. 352, 2 b.

SCHADOW, Johann Gottfried [shá'-do], German sculptor, XIV. 665. Friedrich Wilhelm von Schadow-Godenhaus, painter, 1 c.

*Schafarik* [shá'-fa-rik], (Paul Joseph, 1795-1861), Slavie scholar, II. 789, 2 b, c; XV. 103, 2 a, 104, 2 a.

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SCHAFFHAUSEN [sháf'-how-zen], canton of Switzerland, XIV. 666. Capital, 1 b.

*Scharlachberger wine* [shar'-lá'h-bair-gber], II. 644, 1 c.

SCHAUFLER, William Gottlieb [Ger. show'-fler], American missionary, XIV. 666.

SCHAUMBURG-LIPPE [showm'-boorg-lip'-pēh], principality of Germany, XIV. 666.

SCHÉELE, Karl Wilhelm [shā'-lēh], Swedish chemist, XIV. 666. His investigations and discoveries in chemistry, IV. 362, 1 c.

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*Scheelite* [sheel'-e-tin], mineral, XVI. 30, 1 b.

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SCHÉFFER, Ary [Fr. shefr'], French painter, XIV. 666; IV. 242, 2 b. Henri, painter, XIV. 666, 2 bc.

*Scheffler, Johann*: see ANGELUS SILESII.

*Scheiner* [shi'-ner], (Christoph, 1575-1650, German Jesuit and professor), discovery of the sun spots by (1611), XV. 471, 2 a.

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*Schelestadt* [shail-stát]: see SCHLETTSTADT.

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"*Schellingism, New*," XIV. 669, 2 ab.

*Schema de Parvo* [ské'-ma], Roman Catholic catechism, IV. 105, 1 b.

SCHENITZ [shem'-nits], town of Hungary, XIV. 669.

SCHENCK, Robert Cumming [skenk], American statesman, XIV. 670.

*Schene* [sheen], (Richmond, Eng.), XIV. 322, 2 c.

SCHENECTADY [ske-nek'-ta-de], county, XIV. 670.

SCHENECTADY, city of New York, XIV. 670.

*Schenkier* [shenk'-beer], II. 469, 2 c (BEER).

SCHENKEL, Daniel [shen'-kel], German theologian, XIV. 670.

SCHERIA [ské'-re-a], legendary island, XIV. 670; V. 351, 2 b.

SCHERR, Johannes [shair], author, XIV. 670.

SCHERZER, Karl von, chevalier [shair'-tser], traveller, XIV. 670.

*Scherzo* [skair'-tso], in music, XII. 91, 1 b.

*Scheutz, G. and E.* [shoits], calculating machine of, III. 569, 2 b.

SCHVENINGEN [skā'-ven-ing-en], Dutch watering place, XIV. 671.

SCHICK, Gottlieb [shik], German painter, XIV. 671.

SCHIEDAM [ské'-dām], town, Netherlands, XIV. 671. Schiedam schnapps, 1 c. See GIN.

SCHILLER, Johann Christoph Friedrich von [shil'-ler], German poet, XIV. 671; VII. 767, 2 ab.

SCHILLING, Johannes, sculptor, XIV. 672.

*Schinderhannes* [shin'-der-hân-ness], predatory leader, IV. 343, 2 c.

SCHINKEL, Karl Friedrich, architect and painter, XIV. 672.

*Schinus* [ski'-nus], (botany), XIII. 281, 1 ab. S. molle, ib. (ill.).

*Schism, the great* [sizm], between the Greek and Roman churches, VIII. 218, 1 a. Founder of, XIII. 467, 2 c.

*Schism*, the great western, in the Roman church, V. 268, 1 b. See CLEMENT VII., IV. 662, 1 b-c. Termination of, 2 c.

*Schistes o'nyx* [skis'-teez], (mineralogy), for cutting cameos, III. 653, 1 a.

*Schists* [shists], XV. 87, 2 b (SLATE).

*Schizogeny* [skiz-oj'-e-ne], a form of agamic multiplication, XV. 320, 2 bc.

SCHLAGINTWEIT, Hermann, Adolf, and Robert [shlá'-ghin-twite], German travellers, XIV. 672; VIII. 733, 2 b. Eduard, soldier and author, XIV. 673, 2 b. Emil, orientalist, *ib.*

SCHLATTER, Michael [shlát'-ter], Swiss missionary, XIV. 673.

SCHLEGEL, August Wilhelm von [shlá'-ghel], German scholar, XIV. 674. Friedrich Karl Wilhelm von, author, 1 c; XI. 807, 2 a. See GERMANY, Language and Literature of, VII. 768, 1 bc.

SCHLEICHER, August [shlí'-cher], philologist, XIV. 674.

SCHLEIDEN, Matthias Jakob [shlí'-den], botanist, XIV. 674.

SCHLEIERMACHER, Friedrich Daniel Ernst [shlí'-er-má'-her], theologian, XIV. 675. See MORAL PHILOSOPHY, XI. 807, 2 c, 813, 2 ab; PHILOSOPHY, XIII. 442, 1 b.

SCHLEIZ [shlites]: see REUSS.

SCHLESTADT [shlá'-stát]: see SCHLETTSTADT.

SCHLESWIG [Ger. shles'-vi'h], part of Schleswig-Holstein, XIV. 676. History, 1 ab. City, 1 c.

SCHLESWIG-HOLSTEIN [-hole'-stine], province of Prussia, XIV. 676. History, 2 bc; VI. 14, 1 ab; VII. 757, 2 a.

SCHLETTSTADT [shlet'-stát], town of Alsace, XIV. 677.

SCHLEY [shlá], county, XIV. 677.

SCHLIEMANN, Heinrich [shlé'-mán], German traveller, XIV. 677.

*Schlossberg* [shluss'-bäirg], at Laybach, castle on the, X. 239, 2 b. At Eisenstadt, palace of the, VI. 484, 1 b.

SCHLOSSER, Friedrich Christoph [shlus'-ser], German historian, XIV. 678.

SCHLÖZER, August Ludwig von [shlö'-tser], historian, XIV. 678. Kurd von, author, 2 b.

SCHMALKALDEN: see SMALCALD.

*Schmet*, assumed name, VII. 582, 2 ab.

*Schmid* (Josias), assistant of Pestalozzi, XIII. 348, 1 ab, b.

SCHMID, Leopold [shmit], German theologian, XIV. 678.

*Schmidt, A. W. von.* his plan for removing Blossom rock, III. 701, 2 bc.

SCHMIDT, Heinrich Julian, German author, XIV. 679.

*Schmidt* (Johann Friedrich Julian, born 1825), astronomer, XI. 800, 2 b (MOON).

SCHNAASE, Karl [shná'-zēh], author, XIV. 679.

*Schneekoppe* [shná'-kup-pēh], mountain, XIV. 327, 1 b.

*Schneidemühl* [shní'-dēb-mül], (town of Posen, Prussia), Confession of (German Catholic), VII. 736, 2 a. New Confession of, 2 b.

SCHNEIDER, Eugène [shná'-dair], French politician, XIV. 679. (Died 1875.)

SCHNEIDER, Hortense Catherine, French actress, XIV. 679.

SCHNEIDER, Johann Gottlob [shní'-der], German philologist, XIV. 679.

*Schneiderian membrane* (named from Konrad Victor Schneider, professor at Wittenberg, died 1680), XII. 516, 1 bc, c.

SCHNETZ, Jean Victor [shnace], French painter, XIV. 679.

SCHNORR VON KARLSFELD, Julius [shnur fōn ká'-rölss-felt], German painter, XIV. 679. Ludwig Ferdinand, painter, 2 b.

SCHÖLCHER, Victor [shail-shäir], French author, XIV. 679.

SCHÖFFER, Peter [shō'-fer or shēf'-fer], German printer, XIV. 680; VII. 96, 2 c, 97, 1 b; VIII. 341, 2 ab. Johann, referred to, 2 b.

SCHOFIELD, John McAllister [sko'-feeld], American soldier, XIV. 680.

SCHOHARIE [sko-hä'-re], county, XIV. 680.

*Schoharie*, county seat, XIV. 680, 2 a.

*Schoiffer*: see SCHÖFFER.

*Scholars*, at Oxford, XII. 764, 1 b. Scholarships, 2 b.

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*Scholastic method*, in logic, X. 580, 1 c.

"*Scholastic novices*," Jesuit, IX. 626, 1 c.

*Scholastic philosophy*: see SCHOLASTICISM (Index).

*Scholastics, formed*, Jesuit, IX. 626, 2 a.

*Scholia Veneta*, of the Iliad, XVI. 357, 1 a.

SCHOLTEN, Johannes Hendrik [skol'-ten], Dutch theologian, XIV. 680.

SCHOMBERG, Frederick Hermann, duke of [shom'-berg], English soldier, XIV. 680.

SCHOMBERG, Henri de, count [shō'-bair], French soldier, XIV. 681. Charles, 1 b. Maré-chale de, *ib.*

SCHOMBURGK, Sir Robert Hermann [shom'-burb], English traveller, XIV. 681.



- SCHÖNBEIN, Christian Friedrich [shön'-bine], German chemist, XIV. 681.
- Schönbrunn* [shön'-brook], gardens of, near Vienna, XVI. 352, 1 a. Peace of, VII. 420, 1 bc.
- Schoodic river* [skoo'-dik]: see SAINT CROIX, river.
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- SCHOOLCRAFT, county, XIV. 683.
- SCHOOLCRAFT, Henry Rowe, American author, XIV. 683; XVI. 193, 2 b, 204, 1 a. Referred to, VIII. 10, 2 bc.
- Schoolcy's mountain*, referred to, XI. 844, 1 c.
- "*School of the heart*," Jesuit, IX. 627, 1 a.
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- School system, public*, Roman Catholic opposition to, IX. 33, 2 b.
- Schooner*, XIV. 855, 2 a; XII. 188, 2 bc; XVI. 761, 2 bc.
- Schooten's islands* [sko'-tenz], I. 128, 2 a.
- SCHOPENHAUER, Arthur [sho'-pen-how-er], German philosopher, XIV. 683. See MORAL PHILOSOPHY, XI. 813, 2 b; PHILOSOPHY, XIII. 442, 2 c.
- Schorl* [shorl], XV. 823, 1 bc (TOURMALINE).
- SCHRADER, Julius [shrá'-der], German painter, XIV. 684.
- Schrankia* [skran'-ke-a], (botany), XI. 568, 1 b. S. *uncinata* and *angustata*, *ib.*
- Schreckhorn* [shrek'-horn], Alpine peak, I. 352, 1 a.
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- SCHREVELIUS, Cornelius [skrā-vā'-le-us], Dutch scholar, XIV. 684.
- SCHREYER, Adolph [shri'-er], German painter, XIV. 684.
- SCHRÖCKH, Johann Matthias [shrök], historian, XIV. 684.
- SCHRÖDER, Antoinette Sophie, actress, XIV. 684.
- Wilhelmine Schröder-Devrient, singer, 2 b.
- SCHRÖDER, Friedrich Ludwig, actor, XIV. 684.
- SCHREÑTER, Adolph [shró'-ter], painter, XIV. 685.
- Schroeder van der Kolk* [skroo'-der], theory of the coagulation of the blood, II. 734, 2 a.
- Schrön's tables*, of logarithms, X. 578, 2 a.
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- SCHUBART, Christian Friedrich Daniel [shoo'-bart], German poet, XIV. 685.
- SCHUBERT, Franz, composer, XIV. 685.
- SCHUBERT, Gotthilf Heinrich von, mystic, XIV. 685.
- Schulenburg, Wolfradine, countess von der* [shoo'-len-boorg]: see MINUTOLI, XI. 622, 1 c.
- SCHULTE, Johann Friedrich [shool'-tēh], theologian, XIV. 685.
- SCHULTZE, Max [shool'-tsēh], anatomist, XIV. 686. See PROTOPLASM, XIV. 35, 1 bc.
- SCHULTZ-SCHULTZENSTEIN [shools-shoolts'-enstine], Karl Heinrich, physiologist, XIV. 686.
- SCHULZE, Ernst Konrad Friedrich [shool'-tsēh], poet, XIV. 686.
- Schulze-Delitzsch*, socialist, XV. 142, 2 c.
- SCHUMACHER, Heinrich Christian [shoo'-mā-her], Danish astronomer, XIV. 686. Christian Andreas, 2 bc.
- SCHUMANN, Robert [shoo'-mān], German composer, XIV. 686; XII. 93, 1 bc.
- SCHURZ, Carl [shoorts], American statesman, XIV. 687. (Secretary of the interior 1877.)
- SCHUYLER [skī'-ler], three counties, XIV. 688.
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- SCHUYLER, Philip, American general, XIV. 688.
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- SCHUYLKILL, county, XIV. 688.
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- Schwäbisch-Hall*: see HALL (in Württemberg).
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- Schwabenburg* [shwá'-nen-boorg], castle of, IV. 677, 2 bc.
- Schwann*, experiments on the use of the bile in digestion, II. 634, 2 a-b.
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- SCHWARTZ, Marie Sophie [shwárts], novelist, XIV. 689.
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- SCHWARZ, Christian Friedrich, missionary, XIV. 689.
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- SCHWARZENBERG, Friedrich Johann Joseph Celestinus von [shwár'-tsen-báing], Austrian cardinal, XIV. 689.
- SCHWARZENBERG, Karl Philipp, prince, and duke

- of Krumau, field marshal, XIV. 690. See BLÜCHER. Felix Ludwig Johann Friedrich, prince, statesman, 1 c; II. 146, 2 b, 147, 1 ab, c; VI. 542, 1 c.
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- SCHWEIGGER, Johann Salomon Christoph [shwí'-gher], physicist, XIV. 690. Schweigger's multiplier (galvanic), VII. 593, 1 a (ill.); VI. 515, 2 bc.
- SCHWEINFURT [shwine'-foort], town of Bavaria, XIV. 691.
- Schweinfurt green*, a poisonous color, XIII. 53, 1 c; V. 319, 1 ab.
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- SCIPIO, Roman family, XIV. 693. Publius Cornelius Scipio Africanus Major, 2 c. Publius Cornelius Scipio Æmilianus Africanus Minor, 694, 2 bc. Quintus Cæcilius Metellus Pius, 695, 1 a.
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- Sclerot'ic membrane*, of the eye, VII. 46, 1 a.
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*Seytale* [sī'-ta-le], IV. 602, 2 a (CIPHER).

SOYTHE AND SICKLE, XIV. 725.

SCYTHIA, inancient geography, XIV. 725. Scythians, 2 c, 726, 1 b; XI. 332, 2 a; XVI. 42, 1 c.

*Scythianus*, alleged founder of the Manichæans, XI. 106, 2 c.

SCYTHOPOLIS, town of Palestine, XIV. 726.

SEA: see OCEAN.

SEA ANEMONE: see ACTINIA.

*Sea aprons*, species of algæ, I. 299, 1 c.

*Sea artemisia*, XVI. 731, 1 a.

SEA BEAR: see SEAL, XIV. 734, 1 ab (ill.).

*Sea beet*, II. 472, 1 a.

SEABURY, Samuel, American clergyman, XIV. 726. Samuel (2d), clergyman, 2 b.

SEA CAT, fish, XIV. 726. Northern, 727, 1 b (ill.). Wolf fish so called, XVI. 698, 2 c.

*Sea chicken*, fish, VI. 219, 2 ab.

*Sea conch*, shell, XV. 875, 2 bc (ill.).

SEA COW: see MANATEE, and VIII. 741, 2 a.

SEA CUCUMBER, marine animal, XIV. 727 (ills.).

Sea slug, 2 bc; biche de mar or tripang, 728, 2 bc: see XII. 783, 1 a.

*Sea date shell*: see STONE BORER, XV. 400, 2 b.

SEA DEVIL: see GOOSE FISH, VIII. 109, 2 c.

*Sea dog*: see SEAL, XIV. 731, 1 bc.

SEA DOVE: see AUK.

*Sea ducks*: see EIDER DUCK, VI. 482, 1 a.

SEA EGG: see ECHINUS, VI. 387, 1 b.

SEA ELEPHANT: see SEAL, XIV. 733, 1 c.

SEA FAN, polyp, XIV. 729 (ill.).

*Sea firs*, marine animals, VIII. 165, 2 c.

SEA FOX: see SHARK, XIV. 829, 2 a (ill.).

*Sea grapes*: see SQUID, XV. 234, 1 c.

*Sea gypsies*, referred to, II. 264, 2 bc.

*Seaham*, harbor of, X. 622, 1 ab.

*Sea hare*: see MOLLUSOA, XI. 723, 1 a.

SEA HOG: see PORPOISE, XIII. 719, 2 c.

SEA HORSE, osseous fish, XIV. 729 (ill.). See WALRUS.

SEA KALE, plant, XIV. 729 (ill., 730).

SEAL, aquatic mammal, XIV. 730. Anatomy, 1 c. Character, 731, 1 a. Seal fishery, 2 ab, 734, 2 a; VII. 536, 1 bc, 538, 1 ab. Common seal, XIV. 732, 1 a (ill.); Greenland or harp, 1 b (ill.); narrow-muzzled, 2 b; leopard, *ib.*; white-bellied or monk, 2 c; hooded or crested, 733, 1 a (ill.); bottled-nosed, or sea elephant, 1 c. Sea lion, northern, 2 c; southern, 734, 1 a (ill., 733). Sea bear, northern (fur seal), 1 ab (ill.); southern, 2 b. Bachelor seals, 1 c, 2 ab. Fossil remains, 2 bc.

SEAL, signet, XIV. 734. Form, 735, 1 ab. Material for sealing, 1 b. Devices, 1 c. Seals in place of or with signatures, 2 b, V. 289, 2 b; validity of an instrument, *ib.* Definition of a seal, XIV. 736, 1 b; V. 290, 1 a. Significance in law, XIV. 736, 1 c; implies a consideration, *ib.* Common law in relation to sealed instruments, V. 289, 2 b.

*Sea lemons*, marine animals, XI. 722, 2 c.

SEAL ENGRAVING: see GEM, VII. 663, 1 a (gem engraving).

SEA LEOPARD: see SEAL, XIV. 732, 2 b.

*Scale's Station*, county seat, XIV. 474, 2 bc.

*Sea lettuce*, marine plant, XII. 774, 1 a.

SEA FISHERY: see SEAL (Index).

*Sealing pan*: see SEWERAGE, XIV. 797, 2 bc.

*Sealing wax*, X. 76, 1 c.

SEA LION: see SEAL, XIV. 733, 2 b (ill.).

*Seal islands*: see LOBOS ISLANDS.

*Seal meadows*, floating ice fields, XIV. 731, 2 b.

SEALSFIELD, Charles, German author, XIV. 736.

SEAMAN, XIV. 736. Terms and conditions of service, 2 b, ff. Shipping articles, 2 bc. Obligations of ship owner or master, 737, 1 a. Punishment for disobedience, 1 c. Desertion as distinguished from absence, 2 ab. Sailor's right to be brought home, 2 c. Relation of freight to wages, 738, 1 b.

*Sea mats*: see POLYZOA, XIII. 691, 1 a.

*Sea mew*: see MEW.

*Sea mice*, XII. 229, 1 bc. Common sea mouse, 1 c (ill.).

*Sea monk*: see SQUID, XV. 294, 2 c.

SEA MOSSES: see POLYZOA, XIII. 691, 1 a.

*Sea mouse*: see *Sea mice* (Index).

SEA NETTLE: see ACALYPHÆ, and JELLY FISH.

*Sea pens*: see POLYP, XIII. 689, 2 a.

SEA PIE: see OYSTER CATCHER, XII. 774, 1 a.

SEA PORCUPINE, fish, XIV. 738. Balloon fishes, 2 c (ill., 739). Atinga, *ib.* Puffer (swell fish), 739, 1 c (ill.). Other names, *ib.*

SEA RAVEN, fish, XIV. 739. Common, 2 a (ill.). Other names, *ib.*

SEARCH, Right of, by a belligerent on the high seas, XIV. 739. Doctrine of international law, 2 c. Concession to belligerents in time of war, *ib.* English doctrines of, 740, 1 b; IX. 595, 1 b; XVI. 163, 1 a. See NEUTRALITY, XII. 261, 1 c; PRIZE, XIV. 21, 1 bc.

SEARCY [sur'-se], county, XIV. 740.

*Searcy*, county seat, XVI. 602, 2 a.

SEA ROBIN: see GURNARD, VIII. 335, 2 a.

SEARS, Barnas, American clergyman and educator, XIV. 740. President of Brown university, 2 a. Agent of the Peabody education fund, *ib.*

SEARS, Edmund Hamilton, clergyman, XIV. 740.

*Scars*, Capt. Isaac (1729-'86, merchant of New York), referred to, XIV. 350, 2 c.

SEA SERPENT, XIV. 740; 829, 1 a. Factitious skeleton of, XVI. 748, 2 bc.

SEA SICKNESS, XIV. 741. Remedies and preventives, 2 a.

*Seavile grape*, X. 13, 1 a.

*Sea slugs*, XIV. 727, 2 b; XII. 783, 1 a.

*Sea snail*: see LUMP FISH, X. 714, 1 ab.

SEA SNIPE: see BELLOWS FISH, and PIPE FISH, XIII. 537, 1 a.

*Seasoning*, of wood, XVI. 704, 1 a.

SEASONS, XIV. 741 (ill., 742). Astronomical length of, XVI. 775, 1 c.

SEA SPIDER, marine arachnid, XIV. 742 (ill.). See SPIDER CRAB.

SEA SQUIRT, marine animal, XIV. 742.

SEA SWALLOW: see TERN. Fish so called, VII. 298, 1 ab.

*Seat*, of the hare, VIII. 456, 2 ab.

SEATON, William Winston, American journalist, XIV. 742.

*Seattle*, county seat, IX. 834, 1 c.

SEA UNICORN: see NARWHAL.

SEA URCHIN: see ECHINUS, and XV. 400, 2 c.

SEA WEEDS: see ALGÆ, I. 299, 1 c; FLAG, VII. 247, 2 c; FUCUS; and ATLANTIC OCEAN, II. 78, 2 b.

SEA WOLF: see WOLF FISH.

Seb, Egyptian divinity, VI. 464, 1 a; XII. 116, 2 b, c.

*Seba*, XIV. 834, 2 c (SHEBA).

*Sebaceous matter*, of the skin, I. 119, 1 b, 2 b.

*Sebugo pond* (about 10 by 12 m.), V. 566, 1 ab.

SEBAS'TE: see SAMARIA, XIV. 589, 2 a.

*Sebastes Norvegicus* (ichthyology), VIII. 368, 1 a.

*Sebas'tia* [classically, seb-as-ti'-a], ancient city, XV. 72, 2 bc.

SEBASTIAN, county, XIV. 742.

SEBASTIAN, Dom, king of Portugal, XIV. 742; XIII. 740, 2 a.

SEBASTIAN, Saint, Roman martyr, XIV. 743.

SÉBASTIANI, François Horace Bastien, count [sā-bās-tyā-ne], French soldier, XIV. 743. Referred to, I. 259, 2 bc.

*Sebastianists*, fanatical sect, II. 267, 2 b.

SEBAS'TOPOL [correctly, seb-as-to'-pol], fortified city in the Crimea, XIV. 743. Siege of, V. 485, 1 b.

*Sebor'ím*, Jewish thinkers, VIII. 595, 2 a.

*Sebastieh* [sā-boos-tē'-ēh], site of Samaria, XIV. 589, 2 ab.

*Sece'le* (botany), XIV. 503, 2 b. *S. cereale*, *ib.* (ill., 504). *S. cornutum*, VI. 708, 1 c (ill.).

*Seecalia*, VI. 708, 2 ab (ERGOT).

*Se'eant*, in trigonometry, XV. 866, 1 a.

SECCHI, Pietro Angelo [sek'-ke], Italian astronomer, XIV. 744. (Died 1878.)

*Seceders*, from the Scottish state church, VI. 139, 2 b.



*Secession*, of the southern states: see CONFEDERATE STATES OF AMERICA (Index); UNITED STATES, XVI. 174, 1 b, ff.; DAVIS, Jefferson, 713, 1 a, ff.; LINCOLN, Abraham, X. 492, 1 c. Ordinance of secession passed without the assent of the people in Alabama, I. 233, 1 b; in Tennessee, IX. 659, 1 a; in Mississippi, XI. 657, 1 c; in North Carolina, XII. 496, 2 a; first passed by South Carolina, XV. 199, 1 ab.

*Secession church*, Scottish, VI. 139, 2 bc. See XIII. 811, 1 bc.

*Sechuana dialect* [sech-wá'-na], (language of the Bechuana), I. 171, 1 c.

SECKENDORF, Veit Ludwig von, German scholar, XIV. 744. Friedrich Heinrich, count, soldier, 2 a; IV. 299, 1 b.

SECKER, Thomas, English prelate, XIV. 744.

SECOND, a division of time or space, XIV. 744.

SECOND ADVENTISTS, religious sect, XIV. 745. Seventh Day Adventists, 2 a.

*Secondaries*, in plumage, VII. 105, 2 c.

*Seconde* [Fr. süh-gō'sd], in fencing, VII. 120, 2 b.

*Seconds*, in weight: see SCRUPLE.

SECRETARY BIRD, XIV. 745 (ill., 746).

SECRETION: see GLAND.

*Secret societies*, opposition to, I. 104, 1 c.

*Sero'le*, English settlement in Benares, II. 515, 2 a.

SECTOR, in geometry, XIV. 746. Instrument, 1b.

SECULAR GAMES, Roman, XIV. 746.

SECULARISM, a system of civilization: see HOLYOAKE, VIII. 774, 2 c.

SECUNDUS, Johannes: see JOHANNES SECUNDUS.

SÉDAINE, Michel Jean [sā-dain], French dramatist, XIV. 746.

SEDALIA, town of Missouri, XIV. 747.

SEDAN' [Fr. sā-dā'e], fortified town of France, XIV. 747. Sedan chairs (for passengers, carried by hand), 1 b. Battle of, VII. 397, 1 a; X. 800, 1 b; XVI. 654, 1 b.

*Sedan black*, color, VI. 342, 2 ab.

*Sedanum*: see SEDAN.

*Sedative salt* (boric acid), III. 96, 1 a.

SEDE, plant, XIV. 747 (ill.). Sand sedge (German sarsaparilla), 748, 1 a.

SEDGWICK, county, XIV. 748.

SEDGWICK, Adam, English geologist, XIV. 748.

SEDGWICK, John, American soldier, XIV. 748.

SEDGWICK, Theodore, American statesman, XIV. 749. Theodore, lawyer, 1 b. Susan Ridley, authoress, 1 c. Catharine Maria, authoress, *ib.* Theodore, lawyer, 2 a.

*Sedilia*, in a church, IV. 253, 2 b.

*Sedition law*: see *Alien and sedition laws* (Index). A victim of, V. 310, 1 c (COOPER).

SEDLEY, Sir Charles, English poet, XIV. 749.

SEDUCTION, XIV. 749. In common law, and in the French and Prussian, 2 c, ff. In England and the United States, 750, 1 b. Parent's right to service, 2 ab. Legal complainant, 2 bc. Proof of the crime, 2 c. Recent statutes, 751, 1 a.

SEDUM, genus of plants, XIV. 751. *S. telephium*, 1 c (ill.); *acre*, 2 b (ill.); *ternatum*, *pulchellum*, and *rhodiola*, 2 c; *carneum variegatum*, and *spectabile* or *Fabaria*, 752, 1 a; *Sieboldii*, 1 b (ill.). Parts of *sedum*, XIII. 585, 1 ab (ills.).

SEEBACH, Marie [zā'-bá'h], German actress, XIV. 752.

*Seed*, of a plant, XIII. 574, 2 a. Seed leaves, 575, 1 ab, X. 267, 1 b; of tobacco, XV. 782, 2 b. Nurture and distribution of seeds, XIII. 591, 2 b.

*Seedling fruit*, XIII. 207, 1 a; potatoes, 766, 1 bc; strawberries, XV. 415, 2 a.

*Seekonk river*, XIV. 291, 2 c; 42, 2 bc.

SEELAND, island of Denmark, XIV. 752.

SEELY, John Robert, English author, XIV. 752.

SEEMANN, Berthold [zā'-mán], German naturalist, XIV. 752.

*Seemüller, Anne Moncure*: see CRANE, Anne Moncure.

*Seeress of Prevorst*: see *Prevorst* (Index).

*Sefuradic* (pronunciation of Hebrew), VIII. 599, 1 bc.

*Segesta*, ruins of, I. 260, 1 a.

*Seggar*, case for baking fine stone ware, XIII. 789, 2 c (ill., 790).

*Segment of an arc*, I. 640, 1 c.

SEGNERI, Paolo [sā-nyā'-re], Italian orator, XIV. 752.

*Segni, Rinaldo di* (Pope Alexander IV.), I. 279, 2 ab.

*Segona*, river: see SAÔNE.

*Segontium*, Roman station, site of, IV. 7, 1 a.

SEGOVIA, province of Spain, XIV. 752. Capital, 753, 1 a. Alcázar, 1 ab (ill.).

*Segreti, i* [e sā-grā'-te], literary society, XIII. 721, 2 ab.

SEGUIN, Édouard [süh-gä'e], French physician, XIV. 753. On idiocy, IX. 169, 1 bc, ff.

*Seguin* [sē'-gwin], county seat, VIII. 276, 1 b. SÉGUR, Philippe Henri, marquis de [sā-gür], French soldier, XIV. 753. Louis Philippe, count, historian, 2 c. Philippe Paul de, count, historian, 754, 1 a.

*Schirim* [sā-ho-reem']: see FAIRIES, VII. 63, 1 c.

*Seiches* [saish]: see GENEVA, lake, VII. 671, 1 a.

*Seidlitz*, general: see SEYDLITZ.

SEIDLITZ POWDERS: see ROCHELLE SALT.

SEIDLITZ WATER [side'- or sed'-lits], XIV. 754.

Artificial, 1 bc.

*Seigniorage* [se'-nyur-age], charge for coinage, XI. 617, 1 c.

*Seine* [sain], for mackerel fishing, X. 792, 2 a.

SEINE, river of France, XIV. 754.

SEINE, department of France, XIV. 754.

SEINE-ET-MARNE [-ā-marn], XIV. 754.

SEINE-ET-OISE [-ā-wāz], XIV. 754.

SEINE-INFÉRIEURE [-ā'-fā-re-ūr], XIV. 754.

SEISIN [sē'-zin]: see LIVERY of SEISIN.

*Seismology* [sice-mol'-o-je], VI. 359, 2 bc.

Seismographs, 363, 1 c. Seismic focus, 367, 1 c. Seismometer, Cacciatore's, 363, 2 c; Lamont's, *ib.*; Palmieri's, *ib.*; Mallet's, 364, 1 a; Kreil's, 1 b.

SEISTAN [sais-tān], province of Afghanistan, XIV. 755.

*Sciurus aurocapillus* [se-yu'-rus], (ornithology), XII. 745, 2 a. *S. noveboracensis*, XV. 729, 1 b.

SEJA'NUS, Lucius Ælius, Roman conspirator, XIV. 755.

SÉJOUR, Victor [sā-zhoor], French dramatist, XIV. 755.

*Sela* (Petra), VI. 409, 2 b.

SELACHIANS [se-lā'-ke-anz], cartilaginous fishes, XIV. 755; 826, 1 c; IV. 41, 2 bc.

*Selachus* (ichthyology), XIV. 828, 2 c. *S. maximus*, 829, 1 a (ill.); elephants, 1 bc.

*Selaginella* (botany), X. 745, 1 ab. *S. Kraussiana* and *lepidophylla*, 1 b.

*Selandria* (zoölogy), XV. 109, 1 b. *S. vitis*, XIV. 654, 1 c (ill.).

*Selassyé*, Walda, Abyssinian chief, I. 46, 2 b.

*Selbig*, *Elisa*, nom de plume, I. 211, 1 b.

SELBORNE, Lord [sel'-burn]: see PALMER, Roundell.

"*Selborne, Natural History of*," XVI. 603, 1 b.

SELDEN, John, English author, XIV. 755.

*Selectmen*: see TOWN, XV. 827, 2 b.

*Selenbria* (Index).

SELE'NE: see LUNA, and DIANA, VI. 77, 2 a.

SEL'ENITE: see GYPSUM, VIII. 358, 1 c.

SELENIUM, elementary substance, XIV. 756. Selenides, 1 b. Selenious acid, selenic acid, selenites, seleniates, 1 c.

*Seleniuretted hydrogen*, XIV. 756, 1 c.

SELEUCIA [classically, sēh-lu-sī'-a], several ancient cities, XIV. 756. *S.* on the Tigris, 1 c.

*Destruction of*, V. 234, 2 a. *S. Pieria*, strong fortress of northern Syria, XIV. 756, 2 ab.

*Seleucidae*, dynasty of the, XIV. 757, 1 b. Era of the, *ib.*

*Seleuci'des alba* (ornithology), II. 651, 2 c (ill.).

SELEUCUS I., Nicator, founder of the Syrian monarchy, XIV. 756.

*Seleucus Cybiosactes*, Syrian pretender, II. 552, 2 b.

SELF-DEFENCE, law of, XIV. 757.

*Self-denying ordinance*, in parliament, V. 502, 2 b (CROMWELL); VI. 736, 2 ab (ESSEX).

*Self-fecundation*, of insects, XIII. 132, 2 c.

*Selfs*, seedling tulips (plain-colored), XVI. 26, 2 b.

*Selim* (Jehanghir), IX. 208, 2 bc.

*Selim I.*, sultan of Turkey, XVI. 61, 1 c. *Selim II.* (1566-'74), XV. 160, 1 a; mosque of, I. 132, 1 b. *Selim III.*, XVI. 61, 2 bc (killed 1808).

*Selinunte* [sā-le-noon'-tā], site of Selinus, XIV. 757, 2 a.

*Selinuntine marbles* [sel-e-nun'-tin], XIV. 757, 2 ab.

SELI'NUS, ancient Greek colony of Sicily, XIV. 757. Ruins, 2 a.

*Selish*, Indian tribe, VII. 261, 1 bc.

*Seljooks*: see SELJUKS.

*Seljuk* [sel-jook'], Tartar chief: see SELJUKS.

SELJUKS, Asiatic tribe, XIV. 757. Seljuk dynasty in Persia, XIII. 323, 1 c. First employed as the caliphs' body guard, I. 341, 2 a.

*Selkirk*, town of Scotland, XIV. 758, 1 b.

SELKIRK, Alexander, Scottish seaman, XIV. 757. See DEFOE, and JUAN FERNANDEZ.

*Selkirk settlement*, in Manitoba, XI. 114, 1 c.

SELKIRKSHIRE, county of Scotland, XIV. 758.

"*Seller's option*," in stock dealing, XV. 388, 2 a.

*Sellique* [sā-leeg], his process of making water gas, VII. 640, 1 c. Distillation of coal oils by him, IX. 812, 1 a-2 a.

*Selli'na*, XIV. 693, 1 a (SCILLY ISLANDS).

SELMA, city of Alabama, XIV. 758.

*Selters water*: see SELTZER WATER (Index).

SELTZER WATER: see MINERAL SPRINGS, XI. 594, 1 b.

SELWYN, George Augustus, English clergyman, XIV. 758. (Died 1878.)

*Semangs*, a Malay race, XI. 60, 2 a.

*Semaphorc*, kind of telegraph, XV. 609, 1 c.

SEMELE [sema'-e-le], in mythology, XIV. 758; II. 193, 1 c.

SEMEMENDIA, town of Servia, XIV. 758.

*Semen santonica*, sanctum, or contra, drug, XVI. 730, 2 c.

*Semi-Arians* (homoiousians), I. 700, 2 a.  
*Semiglyph*, in the Doric order, I. 657, 1 a.  
*Semi-mutes*, V. 727, 2 c. Instruction of, 739, 2 c.  
*Sem'ina cataputiae minoris*, VI. 777, 2 bc.  
 SEMINOLES, Indian nation, XIV. 758. Seminole wars, *ib.*; VII. 284, 2 bc; IX. 491, 1 c; 493, 1 c; XII. 716, 2 c.  
*Semi-ovip'arans*: see MEGASTHENES, XI. 359, 2 b.  
*Semiozernoi convent*, in Kazan, IX. 776, 2 c (ill.).  
 SEMIPOLATINSK', province of Asiatic Russia, XIV. 759. Capital, 760, 1 a.  
 SEMIRAMIS, queen of Assyria, XIV. 760; I. 723, 2 ab; II. 33, 2 c, 34, 2 ab; 479, 2 c; XVI. 252, 1 a.  
*Semiramis of Lucca*, sister of Napoleon, III. 25, 2 bc.  
*Semiramis of the North*, sovereigns so called, XI. 157, 2 ab; IV. 113, 1 b.  
*Semi-Salic law of succession*, in England, VI. 626, 1 a.  
 SEMITIC RACE AND LANGUAGES, XIV. 760. Alphabets, 761, 2 c (table of, 762); XIII. 455, 2 c (table, Phœnician, 456); XV. 547, 2 ab (table, Syriac); XVI. 739, 1 a. Semitic idioms of Abyssinia, I. 171, 1 ab. See ARABIC LANGUAGE AND LITERATURE, and ETHIOPIA, Languages and Literature of.  
*Semitones*, in music, I. 70, 1 c.  
*Semi-uncial writing*, XI. 134, 1 a.  
 SEMLER, Johann Salomo [zem'-ler], German theologian, XIV. 762.  
 SEMLIN [zem'-leen'], town of Slavonia, XIV. 762.  
 SEMMERING, Alpine mountain chain, XIV. 762. Railway, 763, 1 a.  
 SEMMES, Raphael [semz], American naval officer, XIV. 763. (Died 1877.)  
*Semneh*, Egyptian fortress, VI. 749, 1 c.  
*Semnopithe'cus* (zoology), XI. 752, 2 b; 753, 2 a. S. entellus, 2 bc (ill.).  
 SEMPACH [zem'-pâ'h], town of Switzerland, XIV. 763. Battle of, *ib.*: see WINKELRIED.  
 SEMPER, Gottfried, German architect, XIV. 763.  
 HANS, professor, 2 b. Karl, traveller, *ib.*  
*Sempervivum* (botany), IX. 12, 2 c. S. tectorum, 13, 1 a, 2 c (ill.); calcareum, 2 a; arachnoideum, *ib.* (ill.); arboreum, 2 ab (ill.); glutinosum, 2 c.  
 SEMPLE, Robert Baylor, American clergyman, XIV. 763.  
*Sena*, island of Gaul, VI. 271, 1 b (DRUIDS).  
 SENAC, Jean Baptiste [sā-nāk], French physician, XIV. 763. Gabriel Senac de Meilhan, author, 764, 1 a.  
*Sena Gallica*: see SINIGAGLIA.

SENATE, deliberative assembly, XIV. 764.  
*Senatobia*, county seat, XV. 582, 2 ab.  
*Sena'tus academ'icus*, XVI. 211, 2 c; 213, 1 c.  
*Senatus consulta*, decrees of the Roman senate, XIV. 764, 2 b; IV. 619, 2 a.  
*Senatus Consultum de Bacchanalibus*, X. 193, 1 b.  
 SENECA, two counties, XIV. 765.  
*Seneca*, county seat, XII. 223, 2 a.  
 SENECA, Marcus Annaeus, Roman rhetorician, XIV. 765. Lucius Annaeus, philosopher, 2 b; X. 196, 2 b.  
 SENECA FALLS, village of New York, XIV. 766.  
 SENECA LAKE, New York, XIV. 766.  
 SENECA OIL: see PETROLEUM, XIII. 367, 2 a.  
*Seneca snakeroot*, XV. 130, 1 a (ill.).  
 SENECA, Indian nation, XIV. 766; IX. 412, 1 bc.  
*Senecio scandens* (botany), VII. 742, 2 c (ill., 743). S. vulgaris, VIII. 270, 1 b; aureus and elegans, 1 bc.  
 SENEFELDER, Aloys [zā'-nēh-fel-der], inventor of lithography, XIV. 767; X. 526, 1 ab, bc.  
 SENEGAL, river of Africa, XIV. 767.  
 SENEGAL, French territory, XIV. 767.  
 SENEGAMBIA, region in Africa, XIV. 767.  
*Senegine* [sen'-e-jin], chemical principle, XV. 130, 1 c.  
*Se'nes, the nine*, VI. 271, 1 b (DRUIDS).  
*Seneschallus*, of Oxford, XII. 762, 2 c.  
*Senex fulcifer*: see SCYTHIE, XIV. 725, 1 c.  
 SENIOR, Nassan William, English political economist, XIV. 768; XIII. 672, 2 ab.  
 SENLIS [sā'-leece], town of France, XIV. 768.  
 SENNA, plant and drug, XIV. 768 (ills.). American, 769, 2 a. Confection of, XV. 561, 2 c.  
 SENNAAR [sen'-nar], country of Africa, XIV. 769.  
 SENNACHERIB [sen-nak'-e-rib]: see ASSYRIA, II. 35, 2 b.  
*Senones* [sen'-o-nee], ancient Gauls, VII. 648, 2 a; XIV. 770, 1 c.  
 SENS [sā'ne], town of France, XIV. 770.  
*Sensation, residual*, in harmony, VIII. 469, 1 c.  
*Sensibility, physiological*, XIII. 485, 2 a; XII. 233, 2 c.  
*Sensitive flames*, XV. 175, 1 b. See FLAME, VII. 255, 2 b.  
 SENSITIVE PLANT: see MIMOSA, XI. 567, 2 a.  
*Sensorium*: see COMA, V. 131, 1 ab.  
*Senti'vum, battle of*, XVI. 110, 1 b; VII. 647, 2 b.  
*Sepals*, of a plant, XIII. 585, 1 ab.  
*"Separated Lutheran" churches*, X. 535, 2 c.  
*Separator*, of a loom, XVI. 523, 1 c.  
*Separatists*, those Puritans who withdrew from the church of England, referred to, V. 245, 2 a.

*Sepedonium chrysospermum* (botany), VII. 531, 2 b.

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*Sepher Yetzirah*, cabalistic treatise, III. 521, 1 b. *Sepher haz-Zohar*, treatise, *ib.*

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*Sepia officinalis* (zoölogy), V. 596, 2 a (ill.).

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1 b; XI. 357, 2 a; XII. 129, 2 a, 741, 1 a.

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*September massacres*, in France, VII. 388, 1 a.

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*Septennial act*, of parliament, VII. 703, 2 ab.

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*Septimania*, *Luchy of*: see *LANGUEDOC*, X. 152, 1 a. Province of, VII. 379, 2 ab.

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*Seraphine* [sēr'-a-feen], musical instrument, XIV. 242, 2 b.

*Serapion*, abbot (St., surnamed Scholasticus, author of an extant treatise against the Manichæans), referred to, XI. 728, 2 c.

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*Serena* [sā-rā'-na], serenade, XIV. 40, 2 a; XII. 88, 2 b.

*Serendib*, a name of Ceylon, IV. 221, 2 c.

*Sereth* [sēr-et'], river (about 300 m. long), III. 420, 1 b; XI. 703, 2 c, 704, 1 a.

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*Sergius*, patriarch of Constantinople (608-639), XI. 758, 1 b, bc.

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- SEYDLITZ**, Friedrich Wilhelm von [zide'-lits], Prussian soldier, XIV. 804.
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*Shawnectown*, county seat, VII. 572, 1 b.

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- TANCRED, Italian crusader, XV. 564.
- TANEY [taw'-ne], county, XV. 564.
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- TANGANYIKA [tan-ga-nyé'-ka], lake of Africa, XV. 565; I. 167, 1 ab; XII. 447, 2 b.
- Tangena*, poisonous fruit, XII. 675, 1 c; X. 813, 1 bc.
- Tangent*, in mathematics, XV. 865, 2 c.
- Tangent galvanometer*, VII. 594, 2 ab (ill.).
- Tanggalung*, civet, II. 403, 1 c.
- TANGIER [tan-jeer], or Tangiers, city of Morocco, XV. 566.
- TANGIPAHOLA, parish of Louisiana, XV. 566.
- Tangle*, species of algae, I. 299, 1 c.
- Tanistry*, law of, III. 245, 2 a.
- TANJORE', district of India, XV. 566. Capital, 567, 1 a (ill., 566).
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- Tanjur* [tân-joor'], lamaic work, X. 117, 2 b.
- Tank cars*, for petroleum, XIII. 372, 1 a.
- Tankia*, boat population of Canton, III. 728, 1 c.
- TANNAHILL, Robert, Scottish poet, XV. 567.
- Tannates* (chemistry), VII. 584, 1 b.
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- Tantalus* (ornithology), XVI. 708, 2 c. T. Ioculator, 2 b (ill.).
- Tantras*, in Hindoo literature, IX. 229, 1 c.
- Tanzimat*, Turkish board of reforms, I. 2, 1 b.
- Tao* [tow], religion of the, in China, IV. 454, 2 b.
- Tao*, division of Corea, V. 350, 1 c.
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- Tap*, puddling cinder, IX. 400, 2 ab.
- Tapa* [tá'-pa], bark cloth, XII. 30, 1 a; III. 234, 2 c; II. 314, 1 b.
- Tapajos* [tá-pá'-zhoce], river of Brazil, III. 220, 1 a.
- Tapanooley residency*, Sumatra, II. 379, 2 b; XV. 464, 1 bc (Tapanuli).
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*Tchehel Situn*, palace at Ispahan, IX. 435, 1 c.

*Tchelinga*, chief, I. 55, 1 bc (ACARNANIA).

*Tcheremisses*, Finnish tribe, VII. 207, 1 a.

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TCHERNIGOV [chër'-ne-gov], government of Russia, XV. 598. Capital city, 1 c.

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*Tchernozem*, kind of soil, I. 195, 2 c.

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*Tea party*, Boston, IX. 94, 1 b; XVI. 155, 1 c.

*Tearer*, in calico printing, III. 595, 2 c.

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*Tee-tee*, monkey, XI. 751, 2 a.

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*Teguxin* [Port. tâ-gâ-shee<sup>er</sup>], lizard, X. 551, 2 b.

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ABERRATION, I. 24, 1 bc, ACHROMATIC LENS,

and SPECTRUM.

TELFAIR, county, XV. 631.

TELFORD, Thomas, British engineer, XV. 631.

*Telinga*, Hindoo race, IX. 215, 1 c.

TELIOTS, a class of fishes, XV. 631.

TELL, William, legendary Swiss hero, XV. 631.

See ALTORF, LUCERNE, X. 704, 2 a, and KÜSS-

NACHT.

*Tell Hum* [hoom]: see CAPERNAUM.

*Tellico*, treaty of, IV. 379, 1 ab.

*Tellograph*, XV. 609, 1 b (TELEGRAPH).

*Tell's chapel*, at Küssnacht, X. 65, 1 ab.

TELL-TALE, bird: see TATTLER.

*Telluric acid*, XV. 633, 1 ab.

*Telluric food*, of plants, I. 195, 1 ab.

TELLURIUM, elementary substance, XV. 632;

XI. 420, 2 bc. Discoverer of, X. 23, 1 a.

*Tellurium*, astronomical machine, XII. 711, 2 a.

*Tellurous acid*, XV. 633, 1 ab.

TELLUS: see TERRA.

*Telo Martius*: see TOLUX, XV. 822, 1 ab.

*Telophorus* (entomology), II. 476, 2 b.

*Telugu* [tel-oo-goo'], Hindoo race, IX. 215, 1 c.

Language, 219, 2 c; 220, 2 a. Alphabet, *ib.*

*Temacuilcahuilia* [tā-ma-kweel-ka-wē'-le-a],

serpent, II. 762, 2 c.

TEMES [tem'-esh], county of Hungary, XV. 633.

TEMESVÁR, city of Hungary, XV. 633.

TEMISCAMINGUE, Lake [tem-is'-ka-ming]: see

OTTAWA, XII. 734, 2 a.

TEMISCOUATA [tā-mis-kwá'-ta], county, XV. 633.

*Temminck* (Conrad Jacob, 1778-1858, Dutch

naturalist), classification of birds by, XII.

705, 2 bc.

*Temnodon salta'tor* (ichthyology), II. 757, 2 c

(ill., 758).

TEM'PE, valley of Greece, XV. 633.

*Temper*, alloy, XIII. 377, 1 a (PEWTER).

TEMPERAMENT, physical and mental, XV. 633.

*Temperament*, of the organ, unequal, XII. 689,

2 c; equal, 690, 1 ab.

TEMPERANCE SOCIETIES: see TOTAL ABSTINENCE.

*Temperature*, atmospheric, II. 83, 1 bc. See

METEOROLOGY, XI. 433, 1 b, ff. (ills., 436, 437);

RAIN, XIV. 185, 1 c.



TEMPERED GLASS, XV. 634.

*Tempering*, of steel, XV. 364, 2 bc.

*Tempering*, in sugar making, XV. 446, 1 b.

TEMPLARS, military order, XV. 634.

TEMPLE, Frederick, English bishop, XV. 636.

TEMPLE, Richard Grenville, earl, statesman, XV. 636.

TEMPLE, Sir William, statesman, XV. 636.

*Temple, the*, in Paris, X. 663, 2 c.

*Temple, the*, in London, IX. 289, 2 c (ills., 290).

Temple garden, 290, 1 b.

*Temple Bar*, London, X. 594, 1 c. Temple church, 598, 1 b.

*Tenacity*, of materials, XV. 416, 1 a.

*Tennaille line* [têh-nail'], in fortification, VII. 335, 2 a.

*Tennailed system*, VII. 329, 2 c.

*Tenancy by curtesy*, in law, IX. 85, 2 a.

TENANT: See LEASE, and TENURE. Tenant at will, X. 270, 1 a. Tenant on sufferance, 1 b.

TENASSERIM, in British Burmah, XV. 636.

TENCH, fish, XV. 637 (ill.).

TENCIN, Claudine Alexandrine Guérin de [tâs-sûs'], French woman of society, XV. 637; I. 271, 2 a.

*Tenèteri*, ancient German tribe, I. 271, 1 bc.

TENDER, in law, XV. 638.

*Tendo Achillis* (anatomy), XV. 78, 1 a. In club-foot, IV. 718, 2 bc; 719, 1 bc, 2 a.

TENDON (anatomy), XV. 639.

*Tenèbra*, office of, VIII. 776, 1 c (HOLY WEEK).

*Tenebrio* (entomology), II. 477, 2 a. T. moliator, XI. 313, 1 ab.

*Tenebrosi* [tā-nā-bro'-ze], school in painting, XII. 799, 2 bc.

TENEDOS, island, Grecian archipelago, XV. 639.

*Tenement, dominant and servient*: see EASEMENT.

TENERANI, Pietro [tā-nā-rā'-ne], Italian sculptor, XV. 639.

*Tenerife* [tā-nā-rē'-fā]: see TENERIFFE.

TENERIFFE [ten-e-rif'], island, Canaries, XV. 640. Peak, 1 b.

*Tenia*, plant, X. 398, 1 a.

TENIERS, David, the elder [ten'-yers], Flemish painter, XV. 640. David, the younger, 2 a.

"*Ten of liberty and peace*," Florentine magistrates, X. 786, 1 bc.

TENNANT, William, Scottish poet, XV. 640.

*Tennantite*, mineral (from Smithson Tennant, F.R.S., 1761-1813, professor of chemistry at Cambridge), XV. 50, 1 c.

TENNEMANN, Wilhelm Gottlieb, German historian of philosophy, XV. 640; XIII. 430, 1 b.

TENNENT, Sir James Emerson, British author, XV. 641.

TENNESSEE, state, XV. 641. State seal (ill.), *ib.* Population, 2 bc. Topography, 642, 1 c. Rivers, 2 bc. Geology, 2 c. Minerals, 643, 1 ab. Natural curiosities, 644, 1 c. Climate, 2 ab. Soil, 2 b. Flora, 2 bc. Fauna, 645, 1 a. Agriculture, 1 ab. Manufactures, 2 ab. Banks, 646, 2 a. Intercommunication, *ib.* Government, 1 b. Finances, 647, 1 bc. Public institutions, 2 a. Education, 2 c. Libraries, newspapers, &c., 649, 1 ab. Religions organizations, 1 b. History, 1 bc.

TENNESSEE RIVER, XV. 650.

TENNIS, game of ball, XV. 651.

*Tenno*: see MIKADO, XI. 530, 2 a, and JAPAN, IX. 538, 1 ab, 539, 1 c.

TENNYSON, Alfred, English poet, XV. 651. Frederick, 652, 1 b.

*Tenochtitlan* [tā-noach-te-tlān'], original name of Mexico, II. 176, 1 ab, c; XI. 482, 2 c.

TENOR, in music, XV. 652.

*Tenorio*: see DON JUAN, VI. 211, 1 c.

*Tenotome*, surgical instrument, IV. 719, 2 c.

*Tenotomy*, surgical operation, IV. 719, 2 ab; XV. 639, 2 b; XVI. 741, 2 c.

*Tenpins*, game, III. 168, 1 b, 2 a.

*Tenree*, animal, VIII. 712, 1 c; XI. 292, 1 a.

TENSAS, parish of Louisiana, XV. 652. River (about 250 m. long), XVI. 492, 1 c, 2 a.

*Tensile resistance*, of materials, XV. 416, 1 a.

*Tension*, in sewing machines, XIV. 802, 1 bc. Automatic, 803, 1 a.

*Tenson* [tā-sōs'], poetic combat, XII. 88, 2 b; XIV. 40, 1 c.

TENT, XV. 652 (ills.). Hospital tents, 654, 1 a (ill.).

*Tenterden, Lord*: see ANNOTT, Charles.

*Ten thousand, retreat of the*: see XENOPHON.

*Tenthredinidae* (entomology), IV. 106, 2 b; XIV. 653, 2 a.

*Tenthredo cerasi* (entomology), XV. 109, 1 b.

*Tentorium*, Roman tent, XV. 652, 2 b (ill.).

*Tentorium cerebelli* (anatomy), III. 188, 1 b; 190, 1 a.

*Tenuch* [tā-nooch']. Aztec sovereign, II. 176, 1 c.

TENURE, of property, XV. 654.

TEOACALI [Sp. tā-o-ká'-lyē]: see MEXICO, XI. 474, 2 b, and CHOLULA (ill.).

TEOS, ancient Ionian city, XV. 656.

*Teotihuacan* [tā-o-te-wá-kán'], pyramids of, I. 397, 2 b.

*Tepanecs*, ancient Mexican race, XI. 472, 1 c.

*Tepeleni* [tā-pā-lā'-ne], town of Albania (pop. about 3,000), I. 310, 2 ab, b.

*Tephillin*, XIII. 477, 2 b (PHYLACTERY).

*Tephrit'is* (entomology), VI. 130, 1 c.

*Tepidarium*, in ancient baths, II. 383, 1 b (ill.).

TEPLITZ, watering place of Bohemia, XV. 656.

*Teploff* (Grigori, died 1779), Russian senator, referred to, IV. 111, 2 b.

TEQUENDAMA, Falls of [tā-kain-dā'-ma]: see BOGOTÁ, II. 782, 2 c.

TERAMO [tā'-ra-mo], province of Italy, XV. 656. Capital, 1 b.

TERATOLOGY, branch of physiology, XV. 656; XI. 764, 2 b.

*Terbia*, an earth, XV. 656, 2 c.

TERBIUM, supposed metal, XV. 656.

TERBUEG, Gerard [tāir'-burg], Dutch painter, XV. 657.

TERCEIRA [tāir-sā'-e-ra], island, Azores, XV. 657.

*Terebenthene*, XVI. 78, 1 a.

*Terebinthus*: see MANICHEANS, XI. 107, 1 a.

*Terebrat'ula* (brachiopoda), III. 177, 2 c. T. septentrionalis (ill.), *ib.*

TEE'DO: see SHIP WORM, XIV. 870, 2 c; V. 202, 1 c; XI. 722, 1 a. T. *navalis*, XIV. 871, 1 a (ill.).

TERENCE, Roman comic poet, XV. 657.

*Terepentele*, XVI. 78, 1 ab.

*Teresa*, *Saint*: see THERESA.

*Teresia*, *Mme.* [tā-rā'-ze-a], dwarf, VI. 335, 2 c.

*Terfezia* (botany), XVI. 14, 1 a.

*Terges'te*, ancient city, XV. 863, 2 c; 864, 1 c.

*Tergesteum*, edifice in Trieste, XV. 864, 1 a.

TERHUNE', Mary Virginia, American novelist, XV. 657.

*Ter'mes* (entomology), XV. 657, 2 c. T. *belliosus* (or *fatalis*), 658, 2 a (ill.); *frontalis*, 659, 1 a.

TERMINI-IMERESE [tāir'-me-ne-e-mā-rā'-zā], town of Sicily, XV. 657.

*Terminus*, Roman deity, XII. 118, 2 b, bc; 534, 2 b; III. 756, 1 a.

TERMITES [Lat. *ter'-me-teez*, plural of *termes*], white ants, XV. 657; I. 169, 1 b.

*Termo*, C. K. [tāir'-mo], nom de plume, III. 309, 2 a.

*Termonde* [tāir-mon'-dēh]: see DENDERMONDE.

TERN, bird, XV. 659. Caspian tern, 1 bc; Cayenne or royal, 1 c (ill.); sooty, 2 ab; Wilson's, 2 bc; arctic, 2 c; black, 660, 1 a. Referred to, VIII. 319, 2 c.

*Ternary compounds, or salts*, XII. 475, 1 a. Constitution of, VII. 597, 2 bc. Ternary hypothesis, XIV. 583, 1 bc.

*Ternary scale of numbers*, I. 708, 1 c.

TERNATE [tāir-nā'-tā]: see MOLUCCAS.

TERNAUX, Guillaume Louis, baron [tāir-nō], French manufacturer, XV. 660. Henri

Ternaux-Campans, 1 b. Mortimer, *ib.*

TEINI [tāir'-ne], town of Italy, XV. 660.

TERPAN'DER, Greek musician, XV. 660.

*Terpenes*, XVI. 77, 2 bc (TURPENTINE, Oil of).

TERPSICHOE [terp-sik'-o-re], muse, XV. 660.

TERRA, Roman deity, XV. 660.

TERRACINA [tāir-ra-chē'-na], town of Italy, XV. 660.

TERRA COTTA, earthenware, XV. 660; XIV. 715, 2 b. Corinthian vases of, V. 354, 2 a.

TERRA DEL FUEGO: see TIERRA DEL FUEGO.

TERRA DI BARI: see BARI.

TERRA DI LAVORO: see CASERTA.

TERRA D'OTRANTO: see LECCE.

*Terrai* [tāir-rī'], pestilential tract in India, VIII. 731, 2 a.

*Terra Japonica*, a vegetable extract, VII. 607, 1 bc; IV. 105, 2 c.

*Terral'*, land breeze in Cuba, VIII. 519, 2 c.

*Terra Lemnia*, medicinal earth, X. 336, 1 a.

*Terra ponderosa*, II. 313, 1 a (BARIUM).

TERRAPIN, land tortoise, XV. 661. Yellow-bellied, 1 c; red-bellied, 2 a (ill.); Florida, 2 ab; chicken, 2 c; salt-water, 662, 1 a.

TERRE BONNE [Fr. *tāir būn*; usually, tar bone], parish of Louisiana, XV. 662.

TERREBONNE, county of Canada, XV. 662.

TERRE HAUTE [tēr'-re hut; Fr. *tāir* etc], city of Indiana, XV. 662.

TERRELL, county, XV. 662.

*Terreplein* [tāir-plain'; Fr. -plā's], in fortification, VII. 329, 2 ab. (See plan.)

TERRESTRIAL MAGNETISM: see MAGNETISM, Terrestrial.

*Terre verte* [tāir vāirt], XII. 805, 2 b (PAINTS).

"*Terrible Tractoration*," poem, VII. 157, 1 bc.

TERRIER, dog, XV. 662 (ill.).

*Territion*, in torture, XV. 814, 2 a.

*Territorics, western*, early settlement of, VII. 535, 2 a. Surveys of, XV. 491, 1 c.

*Territory of the United States south of the Ohio*, XV. 649, 2 ab.

*Tertian type*, of fever, VII. 164, 2 c. Double tertian, 165, 1 a.

TERTIARIANS, in a monastic order, XV. 663; VI. 200, 2 c; VII. 427, 1 a; XI. 730, 1 c.

*Tertiaries*, in plumage, VII. 105, 2 c.

*Tertiary order*: see TERTIARIANS (Index).

*Tertiary period*, in geology, VII. 697, 2 ab. Fauna and flora of, 698, 1 a.

TERTULLIAN, church father, XV. 663; X. 198, 2 bc. On dreams, VI. 255, 2 a.

TERUEL [tā-roo-ail'], province of Spain, XV. 664. Capital, 1 b.

Tesa: see THEZA.

TESCHEN [tā'-shen], town of Austria, XV. 664. Peace of, *ib*.

Tessa-Zion, learned Abyssinian, VI. 752, 2 a.

Tessel'w, XV. 753, 1 a, ab (TILE).

Tes'seræ, in mosaic, XI. 856, 2 a; 857, 1 bc.

TESSIN [Fr. tā-sā'; Ger. tes-seen']: see TICINO.

Testa, of plants, XIII. 591, 2 c.

Test act, in England, IX. 518, 1 ab, c. Repeal of, VI. 139, 2 a.

TESTAMENT: see WILL, and VI. 57, 1 bc. Roman, *ib*.

TESTAMENT, Old and New: see BIBLE (Index).

Testamur, at Oxford, XII. 766, 1 b.

TESTIMONY: see EVIDENCE.

Testing machines, XV. 419, 2 a (ILLS.) (STRENGTH OF MATERIALS).

Test oath cases, in the supreme court, II. 92, 1 a.

Testry, battle of, XIII. 278, 1 b.

Testudina'ria elephan'tipes (botany), XV. 813, 2 a (ILL.).

TESTUDINATA, order of reptiles, XV. 664 (ILL.).

Testudini'na (zoölogy), XV. 664, 2 b.

Testu'do, a covering of shields, I. 740, 2 a.

Testudo elephantopus (zoölogy), XV. 813, 1 b.

T. Græca, 1 b; polyphemus, 812, 2 c; nigra, VII. 557, 1 b.

TET'ANUS, disease, XV. 666.

Tetarata [tā-ta-rā'-ta], boiling spring in New Zealand, VII. 784, 2 c.

Tetrabranchia'ta (mollusca), XI. 723, 2 bc.

Tetradactylus Deeresien'sis (zoölogy), XIV. 771, 1 b.

Tetragram'maton, the, X. 846, 2 a (MAGIC).

Tetragonol'epis, fossil fish, VII. 615, 2 a (ILL.).

Tetrahe'drite, mineral, XV. 50, 1 c.

Tetralogy, of the Greek drama, VIII. 213, 2 b.

Tet'rao (ornithology), VIII. 270, 2 a. T. urogallus, 2 ab; hybridus, 2 bc; Canadensis, 2 c; phasianellus, 671, 1 c; cupido, 2 b (ILL.); tetrrix, II. 676, 2 c (ILL.).

Tetra'dodon (ichthyology), XIV. 738, 2 a, 739, 1 b; VI. 499, 2 bc. T. electricus, 2 c; turgidus, XIV. 739, 1 b (ILL.).

Tetraon'idæ (ornithology), VIII. 270, 1 c.

Tet'rapla, of Origen, XII. 692, 2 c.

Tetrascopæ, IX. 735, 2 b (KALEIDOSCOPE).

Tet'rieus, Roman usurper, II. 119, 2 b.

TETUAN [tet-oo-ân' or tet-wân], city of Morocco, XV. 667.

TETZEL, Johann, German monk, XV. 667; X. 726, 2 c.

TEU'CEER, king of Troy, XV. 668. Grecian hero, 1 ab.

Teufelsdröckh, Diogenes [toi'-felce-drök], in Carlyle's "Sartor Resartus," III. 797, 2 ab.

Teufelsmühle [-mü-lëh], VIII. 493, 2 c (HARTZ).

TEUFFEL, Wilhelm Sigismund [toi'-fel], German philologist, XV. 668.

Teut [toit]: see TUISCO, and VII. 737, 1 bc.

Teuta, Illyrian queen, IX. 194, 1 a.

TEUTOBURG FOREST [toi'-to-boorg], XV. 668; XVI. 569, 2 b.

TEUTON'IO KNIGHTS, religious and military order, XV. 668; XIII. 644, 2 c. Founder of, VII. 451, 2 ab.

Teutonic languages: see GERMANIC RACES AND LANGUAGES.

Teutonic society, referred to, XIV. 596, 2 b.

TEUTONS, ancient German race, XV. 669; VII. 737, 1 ab, 2 b.

Tevere [tā'-vā-rā], river: see TIBER.

TEWKESBURY, town of England, XV. 669.

Texan'a, county seat, IX. 483, 1 b.

TEXAS, state, XV. 669. State seal (ILL.), *ib*.

Population, 670, 1 a. Topography, 2 a. Coast, 2 c. Rivers, 671, 1 ab. Geology and minerals, 2 a. Climate, 2 c. Soil, 672, 1 c. Fauna and flora, 2 a. Agriculture, 2 c. Manufactures, 673, 1 b. Commerce, 2 b. Banks, 2 c. Intercommunication, *ib*. Government, 674, 1 bc. Finances, 675, 1 a. Public institutions, 1 c. Education, 2 a. Libraries, newspapers, &c., 676, 1 b. Religious organizations, *ib*. History, 1 c. Annexation of, 678, 2 b. See HOUSTON, Sam, and IX. 837, 2 a.

TEXAS, county, XV. 679.

TEXEL, island, Netherlands, XV. 679.

TEXIER, Charles Félix Marie [tā-se-ā], French archaeologist, XV. 680.

Textitaria globulosa (ILL.), VII. 311, 2 a (FORAMINIFERA).

Teyde, peak of [tā'-e-dā]: see TENERIFFE.

Tezcatlipoca [tess-kā-tle-po'-ka], Mexican divinity, I. 397, 1 a (twice).

TEZCUCO [tess-koo'-ko], town of Mexico, XV. 680. Kingdom of, XI. 472, 2 a.

Tezel [tā'-tsel]: see TETZEL.

THACK'ER, James, American physician, XV. 680.

THACHER, Peter, American clergyman, XV. 680.

THACKERAY, William Makepeace, English author, XV. 680. Anne Isabella, authoress, 681, 1 b.

- Thackrah*, on coagulation of the blood, II. 734, 1 b, c.
- THAER, Albrecht [táir], German agricultural writer, XV. 681.
- Thai*, the [t'hī or tī], Indo-Chinese race, IX. 253, 2 ab.
- THA'IS, Athenian courtesan, XV. 681.
- Thais* (entomology), III. 498, 1 b.
- Thakombau*, king of the Feejee Islands, VII. 113, 2 ab.
- Thakoors*, Rajpoots, IX. 214, 1 a.
- Thalassid'roma* (ornithology), XIII. 365, 2 a. T. pelagica, 2 b (ill.).
- Thalassochelys caouana* [tha-las-sok'-e-lis kâ-wâ'-na], (zoölogy), XVI. 80, 2 a.
- THALBERG, Sigismond [tâl'-bäirg], Swiss pianist, XV. 681; XII. 93, 2 c. Zaire, XV. 682, 1 a.
- THALER [tâ'-ler], coin, XV. 682.
- THA'LES, Greek philosopher, XV. 682. His idea of the figure of the earth, VI. 354, 2 c.
- THALI'A, muse, XV. 682.
- THALLIUM, metal, XV. 682.
- Thallo*, one of the Horæ, VIII. 816, 1 c.
- Thallogens*, in botany, X. 408, 1 c.
- Thallous oxide*, XV. 682, 2 b.
- Thallus*, of a lichen, X. 408, 1 c.
- THAMES [taimz], river of Connecticut, XV. 682.
- THAMES, river of Canada, XV. 682. Battle of the Thames, 683, 1 a; IX. 663, 1 ab.
- THAMES [temz], river of England, XV. 683. Bridges, X. 592, 1 ab. River quays, or Thames embankments, 1 c. Tunnel, 616, 1 c. Subway, 617, 1 b.
- Thames ballast*, V. 208, 2 c.
- THAN, Móricz [tân], Hungarian painter, XV. 683.
- Thanes*, Anglo-Saxon landholders, I. 499, 2 b.
- THAN'ET, Isle of, England, XV. 683.
- THANKSGIVING DAY, religious festival, XV. 683. National: during the revolution, 684, 1 ab; on the adoption of the constitution, 1 b; for peace (1815), *ib.*; during the civil war, 1 c; annual since that time, *ib.*
- Thargal* (Tidal of the Bible), VI. 485, 2 a; IV. 230, 2 ab.
- THASOS, island, Grecian archipelago, XV. 684.
- Thassilo II.* [tâs'-se-lo]: see *Tassilo* (Iudex).
- Thatch*, roofing, XIV. 420, 1 a.
- Thatched House tavern*, London, I. 340, 1 c.
- THATCHER, Benjamin Bussey, American author, XV. 684.
- Thaumale'a* (ornithology), XIII. 384, 2 b. T. picta, *ib.* (ill., 385).
- Thaumaturgist*, IX. 707, 1 a. Thaumaturgy, 1 ab. "*Thaumaturgus of Britain*," V. 595, 1 b.
- Thayendanega*: see BRANT, Joseph.
- THAYER, county, XV. 684.
- The'a* (botany), XV. 598, 2 b, c.
- Theans*, class of Hindoos, XI. 47, 2 ab.
- THEATINES [the'-a-tinz], religious order, XV. 684; IV. 421, 2 c.
- THEATRE, XV. 685. Greek, 1 c. Roman, 686, 1 a. Largest ancient, 1 b. Of the middle ages, 1 c. Of England, 2 a. Of America, 2 c. Largest theatres, 687, 1 c (table). Chinese, 2 a.
- Thebæ*: see THEBES.
- Theba'ic version of the Scriptures*, V. 333, 1 c.
- Thebaina* [theb-a-ī'-na], alkaloid, XII. 650, 1 a.
- THEBAIS [theb'-a-is], Egypt, XV. 687.
- THEBES, in Egypt, XV. 687. Ruins of, 2 c; at Gurna, 688, 1 a; at Medinet-Abu, 1 b; at Luxor, 2 a (ill.); at Karnak, 689, 1 a (ill.).
- THEBES, in Greece, XV. 689. Expedition of the "seven against Thebes," I. 131, 1 a.
- Thebes*, county seat, I. 275, 2 c.
- Thecal abscess*, XVI. 609, 2 c. Treatment, *ib.*
- The Dalles* [dälz], county seat, XVI. 468, 2 c.
- THEFT: see LARCENY. "Theft or piracy" in marine insurance, IX. 318, 2 ab.
- THEINE [the'-in]: see CAFFEINE, and TEA, XV. 601, 2 a.
- THEINER, Augustin [tī'-ner], German historian, XV. 689. Johann Anton, theologian, 690, 2 a.
- THEISS [tice], river of Hungary, XV. 690.
- Thekla* [tek'-la], pseudonym, VI. 331, 1 a.
- THELWALL, John, English author, XV. 690.
- THEMIS, in Greek mythology, XV. 691.
- Themistius*, heretic, I. 188, 2 c.
- THEMISTOCLES [the-mis'-to-kleez], Athenian general, XV. 691.
- THÉNARD, Louis Jacques, baron [tā'-nar], French chemist, XV. 691. His investigations and discoveries in chemistry, IV. 367, 1 ab, b.
- THEOBALD, Lewis, English author, XV. 692.
- Theobroma* (botany), III. 531, 2 c. T. cacao (ill.), 532.
- Theobromine* [the-o-bro'-min], IV. 789, 2 ab.
- Theocracy of Christendom*, Leibnitz's plan of, X. 323, 1 bc; 324, 1 a.
- THEOCRITUS, Greek poet, XV. 692.
- Theocritus, modern*: see MELI.
- Theodatus*, Byzantine, IX. 726, 2 c.
- Theodatus*, king of the Ostrogoths, I. 374, 1 a; IX. 727, 2 c, 728, 2 a.
- THEODOLITE, surveying instrument, XV. 692 (ill.).
- THEODORA: see JUSTINIAN, IX. 727, 2 ab, and II. 243, 2 c.

**THEODORE**, King: see **ABYSSINIA**, I. 46, 2 b.  
*Theodore I.*, king of Corsica: see **NEUHOF**.  
*Theodore Lascaris*, emperor of Nicæa, I. 292, 2 c. See **LASCARIS**, X. 179, 1 a, and **NICE**, XII. 427, 2 c.  
**THEOD'ORET**, Syrian theologian, XV. 693.  
**THEOD'ORIC**, the Great, king of the Ostrogoths, XV. 693. Referred to, I. 238, 2 a.  
*Theodoric the Visigoth*, referred to, I. 155, 2 b (twice); VIII. 126, 1 c.  
*Theodo'rus of Samos*, ancient cameo engraver, III. 651, 2 c.  
**THEODOSIA**: see **KAFFA**.  
*Theodosia*, Roman station, VI. 309, 1 b.  
*Theodosiopolis*: see **ERZERUM**, VI. 722, 2 c.  
**THEODOSIUS**, Roman general, XV. 693.  
**THEODOSIUS I.**, the Great, Roman emperor, XV. 694; I. 385, 1 a (**AMBROSE**).  
*Theodosius II.*, Byzantine emperor, III. 513, 2 b; IV. 622, 1 c; V. 7, 1 b. Porphyry's work, "Against the Christians," destroyed by his order, XIII. 719, 2 b.  
*Theodosius III.*, I. 458, 1 c; III. 515, 1 b.  
*Theodosius*, Saint (abbot at Kiev, author of extant sermons, died about 1080), catacombs of, IX. 830, 1 b.  
**THEOGNIS**, Greek poet, XV. 694.  
**THEOLOGY**, XV. 694. First used in its modern sense, 2 c. Branches of, 695, 1 a, ff. Influence of **Abélard**, 1 b; of **Kant**, 1 c. In Roman Catholic schools, 2 a. Scholastic theology, 2 b. Types of in the Reformed church, XIV. 253, 2 ab, ff. New England theology, 254, 1 c.  
*Theoph'ano (Theophania)*, Byzantine empress, III. 516, 1 b. German empress, her daughter, XIII. 729, 2 b; 730, 1 a.  
*Theoph'ilus*, Byzantine emperor, III. 515, 2 b.  
*Theophilus*, patriarch of Alexandria (385-412), I. 291, 2 c.  
**THEOPHRASTUS**, Greek philosopher, XV. 695. His work on botany, III. 131, 2 ab, c; on minerals, XI. 588, 2 c.  
*Theophronius*, ancient sectary, I. 188, 2 c.  
**THEOPH'YLAOT**, Simocatta, Byzantine historian, XV. 696.  
**THEOPHYLACT**, Greek theologian, XV. 696.  
**Θεοδόκος**: see **NESTORIUS**, XII. 241, 2 c.  
*Theoticas*, Saxon slaves, I. 499, 2 c.  
**THERA**, island of Greece, XV. 696; VI. 676, 1 b. A variety of wine, VIII. 217, 1 a.  
**THERAMENES** [the-ram'-e-neez], Athenian political leader, XV. 696.  
*Therapeutæ*, of Egypt (Jewish sect), I. 467, 1 c.

**THERESA**, Saint [têh-res'-sa or te-rô'-sa], Spanish mystical writer, XV. 696.  
*Theresa, Saint*, of New France: see **MARY OF THE INCARNATION**.  
*Theresians*, religious order, XV. 697, 1 a.  
**THERESIOPEL** [tâ-râ-ze-ô'-pel]: see **SZABADKA**.  
*Theri'acæ*, medical preparations, XII. 647, 1 ab.  
*Ther'iac compound*, medical, XI. 347, 2 a.  
*Therip'pides*: see **DEMOSTHENES**, II. 797, 2 a.  
**Therma**: see **SALONICA**, XIV. 570, 2 b.  
*Thermæ Herculis*: see **MEHÁDIA**.  
*Thermæ Himerenses*: see **TERMINI-IMERESE**.  
*Thermæ Selinuntæ*: see **SCIACCA**.  
**THERMA'IO GULF**: see **SALONICA**.  
*Thermal rays, visible*, ratio of to the total number, XVI. 91, 2 c.  
*Thermal springs*, XVI. 499, 1 a. Indifferent, XI. 594, 2 c.  
*Thermal unit*, XV. 327, 1 c.  
*Thermes, palais des* [pâ-lâ dâ tâirm], Paris, XIII. 89, 1 c.  
*Thermidor, revolution of* [tâir-me-dor], IV. 436, 1 bc. See **FRANCE**, VII. 389, 2 b; **ROBESPIERRE**, XIV. 359, 2 a.  
*Thermodynamic unit*, V. 378, 2 c.  
**THERMO-ELECTRICITY**, XV. 697 (ill.). Thermo-electric pile, or battery, 698, 1 a (ill.); Farmer's, II. 667, 1 bc.  
*Thermography*, XIV. 428, 2 c.  
**THERMOMETER**, XV. 698. Mercenrial, 699, 1 a. Construction of, 1 b. Fahrenheit, Réaumur, and centigrade thermometers, 2 a (ill.). Self-recording, 700, 1 a (ills.). Differential, 2 a. —Air thermometer, Jolly's, XIV. 111, 2 ab (ill.). Deep-sea thermometer, II. 74, 1 c; Six's, *ib.*; Saxton's, 2 a; Miller-Casella, *ib.*; Wet-bulb, IX. 133, 1 c.  
**THERMOP'YLE**, XV. 700. Polyandrium, 701, 1 a. French Thermopylæ, so called, I. 697, 1 c.  
*Thermostat*, of the automatic fire alarm, XV. 620, 1 c.  
*Thermo-tension*, of metals, XV. 421, 2 bc.  
*Thermoties*, VIII. 567, 1 a.  
**THÉROIGNE DE MÉRICOURT** [tâ-rwâny' dûh mâ-re-koor], French revolutionist, XV. 701.  
*These'um*, temple at Athens, II. 60, 2 c (ill.); XV. 701, 2 b.  
**THESEUS** [thé'-suce], legendary hero, XV. 701.  
**THES'IGER**, Sir Frederick: see **CHELMSFORD**.  
*Thesmophoria*, Greek mysteries, XII. 115, 1 a.  
*Thesmoth'etæ*, of Athens, I. 667, 1 a.  
*Thespieæ*, seat of the worship of Eros, VI. 718, 2 c.  
**THESPI**, founder of Greek tragedy, XV. 701; VI. 245, 1 a.



THESSALONIANS, Epistles to the, XV. 702.

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THESSALY, division of ancient Greece, XV. 702.

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*Thethys*, XV. 282, 1 bc (SPONGE).

THETIS, in Greek mythology, XV. 703; XII. 230, 1 ab.

*Théart*, *Abraham* [tā-var], early glass manufacturer, VIII. 9, 1 a.

THÉVENOT, Melchisedech [taiv-nō], French traveller, XV. 703. Jean de, traveller, 1 bc.

THEZA [tā'-za], town of Morocco, XV. 703.

*Thiaki* [the-ā'-ke]: see ITHACA, Greece.

*Thian-shan mountains* [te-ān'-shān], II. 8, 1 c.

THIBAUT IV. or VI. as count of Champagne, I. as king of Navarre [te-bō], XV. 703.

THIBAUT, Anton Friedrich Justus, German jurist, XV. 703.

THIBET [tib'-et], region of central Asia, XV. 703. Situation, 2 c. Physical features, 704, 1 b. Systems of drainage, 1 c. Climate, 2 a. Vegetation, 2 b. Minerals, 2 bc. Animals, 2 c. Inhabitants, 705, 1 a. Manufactures and commerce, *ib.* Language and literature, 1 b. Religion, 1 c. Political relation and government, *ib.* History, 2 ab. Thibetans, IX. 252, 2 ab.

*Thibet*, *Cashmere*, or *shawl goat*, VIII. 57, 1 c; XV. 704, 2 c, 705, 1 a. Attempts to naturalize it, IV. 55, 2 c.

*Thibodeaux* [tib-o-dō], county seat, X. 103, 2 b.

*Thiergarten* [teer'-gar-ten], park in Berlin, II. 565, 2 ab; XIII. 104, 1 bc.

THIERRY, Jacques Nicolas Augustin [tyāir-re], French historian, XV. 705. Amédée Simon Dominique, historian, 706, 1 ab. Gilbert, 1 bc.

THIERS [tyāir], town of France, XV. 706.

THIERS, Louis Adolphe, French statesman, XV. 706. (Died 1877.) Action of the Thiers ministry in behalf of Kossuth, X. 49, 2 c. See COMMUNE DE PARIS, V. 162, 1 b, 164, 2 bc; his proclamation for a final attack on Paris, 166, 2 a; demolition of his house, 167, 1 c.

THIERSCH, Friedrich Wilhelm [teersh], German philologist, XV. 707. Heinrich Wilhelm Josias, theologian, 708, 1 a.

*Thierwolf* [teer'-vulf]: see WOLFF, Wilhelm.

*Thieves' Latin*, XV. 85, 2 b (SLANG).

*Thilorier* [te-lo-re-ā], his apparatus for liquefying carbonic acid, VIII. 578, 1 ab.

*Thimbleberry*, XIV. 210, 1 b (RASPBERRY).

THIONVILLE [tyō<sup>se</sup>-veel]: see DIEDENHOFEN.

*Thiosulphuric acid*, XV. 457, 2 a.

THIRD ESTATE: see STATES GENERAL, and V. 250, 1 c; VII. 380, 2 a, b; X. 661, 1 c, 662, 2 ab. *Third order of penitence*, in monastic orders, VI. 200, 2 c.

*Thirā*, origin of the term: see SCRUPLE.

*Third silver* (*tiers-argent*), I. 368, 2 b.

THIRLWALL, Connop, English historian, XV. 708. On the Iliad and the Odyssey, VIII. 779, 2 b.

THIRST, XV. 708.

*Thirty*, *the*, battle of, II. 427, 2 c.

*Thirty tyrants*, of Athens, II. 56, 1 c; VIII. 195, 1 bc. See CRITIAS, and THERAMENES.

*Thirty tyrants*, *age of the*, in the Roman empire, VII. 579, 2 ab.

THIRTY YEARS' WAR, XV. 708. Beginning of, 709, 2 c; II. 789, 1 ab; VII. 133, 1 c. Its influence on Czech civilization, II. 789, 1 ab; on German, VII. 754, 1 ab. Peace of Westphalia, XV. 711, 2 bc. See CHRISTINA, IV. 548, 1 b; GUSTAVUS II., Adolphus; TILLY; and WALLENSTEIN.

*This*: see ABYDOS, I. 42, 1 ab.

THIS'BE: see PYRAMUS AND THISBE.

THISTLE, plant, XV. 712. Common, 2 b (ill.); creeping or Canada, 713, 1 b (ill.). Native thistles, 2 a. Cotton thistle, *ib.*

THISTLE, Order of the, XV. 713.

*Thistle bird*: see YELLOW BIRD.

*Thistlewood*, Arthur (born 1772, leader in the Cato street conspiracy, executed 1820), referred to, I. 129, 1 a.

THOLUCK, Friedrich August Gotttreu [tō'-look], German theologian, XV. 713. (Died 1877.)

*Tholus of Æsculapius*, VI. 681, 2 c.

THOMAS, two counties, XV. 714.

THOMAS, Charles Louis Ambroise [tūh-mā], French composer, XV. 714; XII. 93, 1 a.

THOMAS, Christians of St.: see CHRISTIANS OF ST. THOMAS.

THOMAS, George Henry, American soldier, XV. 714. See CHATTANOOGA, CHICKAMAUGA, and NASHVILLE.

THOMAS, Isaiah, American printer, XV. 715.

THOMAS, Joseph, American author, XV. 715.

*Thomas, J. J.*, on budding, III. 195, 1 b.

THOMAS, Saint, apostle, XV. 715.

THOMAS à KEMPIS: see KEMPIS.

THOMAS AQUINAS: see AQUINAS. On the immaculate conception, IX. 195, 1 b.

THOMASIUŠ, Christian [to-mā'-ze-oos], German philosopher, XV. 715. Gottfried, theologian, XV. 716, 1 a.

THOMASSIN, Louis de [tüh-mas-sä<sup>ne</sup>], French theologian, XV. 716.

THOMASTON, town of Maine, XV. 716.

*Thomaston*, county seat, XVI. 219, 1 a.

*Thomastville*, county seat, XV. 714, 1 c.

*Thomists* [tö'-mists], followers of Thomas Aquinas, XI. 719, 2 c.

*Thomomys* [thom'-o-mis], (zoölogy), VIII. 110, 1 a, 2 c. T. bulbivorus, 111, 1 a (ill.).

THOMPSON, county, XV. 716.

THOMPSON, Augustus Charles, American clergyman, XV. 716.

THOMPSON, Benjamin: see RUMFORD (Index).

THOMPSON, Daniel Pierce, American novelist, XV. 716.

THOMPSON, Elizabeth, English painter, XV. 716. (Now Mrs. Charles Butler.)

THOMPSON, Sir Henry, English surgeon, XV. 717.

THOMPSON, Joseph Parrish, American clergyman, XV. 717.

THOMPSON, Launt, American sculptor, XV. 717.

THOMPSON, Thomas Perronet, English political reformer, XV. 717.

THOMPSON, Waddy, American lawyer, XV. 717.

THOMPSONVILLE, village, Connecticut, XV. 718.

THOMS, William John [tomz], English antiquary, XV. 718.

*Thomson*, county seat, X. 781, 1 a.

THOMSON, Anthony Todd, British physician, XV. 718. Katherine Byerly, authoress, 1 c.

THOMSON, Charles, American patriot, XV. 718.

THOMSON, Edward, clergyman, XV. 718.

THOMSON, James, British poet, XV. 718.

THOMSON, James, British civil engineer, XV. 719. On glaciers, VII. 830, 2 c.—Sir William, mathematician, XV. 719, 2 a. Theory of the sun's heat, VIII. 568, 1 c. On the scientific measurement of time, VI. 489, 2 ab; on the rigidity of the earth, 490, 1 a. On glaciers, VII. 830, 2 c.

THOMSON, Thomas, British chemist, XV. 719.

THOMSON, William, English clergyman, XV. 720. On logic, X. 582, 1 b.

*Thomson*, Prof. W. (Wyville), naturalist: see DREDGING, Deep-Sea, VI. 257, 1 c; 259, 1 b, c; 260, 1 a.

*Thonnelier* [tün-nüh-lyä], coining press of, XI. 619, 2 a.

*Thonon* [tüh-nö<sup>ne</sup>], arrondissement: see CHABLAIS.

THOR [thor or tor], Scandinavian deity, XV. 720; XII. 119, 2 c. Referred to, VI. 399, 2 a.

*Thoraente'sis*, surgical operation, VI. 266, 2 c.

*Thoracic duct* (anatomy), X. 749, 2 c.

THORAX, the chest, XV. 720 (ill.).

THOREAU, Henry David [tho'-ro], American author, XV. 721.

*Thorfinn* [tor'-fin], Norwegian prince: see MACBETH, X. 771, 2 b.

*Thorfinn Karlsefni*, Icelandic navigator, XII. 498, 1 b.

*Thorinum*: see THORIUM.

THORIUM, metal, XV. 721. Thorite, 1 c.

Thorina, *ib.* Thorinic chloride, *ib.*; sulphate, 2 a.

THORIN, plant, XV. 721. Cockspur thorn, 2 b (ill., 722); other native species, 722, 1 b.

Hawthorn, 1 c (ill.). Evergreen or pyracanth thorn, 2 c; VIII. 604, 2 b.

THORN [torn], town of Prussia, XV. 723.

THORN APPLE: see DATURA, V. 700, 2 a.

THORNBURY, George Walter, English author, XV. 723. (Died 1876.)

THORNHILL, Sir James, English painter, XV. 723.

*Thorns*, of plants, XIII. 577, 1 c.

THORNTON, Bonnell, English author, XV. 723.

*Thornton*, Col., of the British army, at New Orleans, IX. 490, 2 a, b, c.

THORNTON, Matthew, a signer of the Declaration of Independence, XV. 723.

THORNWELL, James Henley, American clergyman, XV. 723.

THORNYCROFT, Mary (Francis), English sculptress, XV. 724.

THOROUGH BASS, XV. 724; XII. 81, 1 b.

THOROUGHWORT: see BONESET.

THORPE, Benjamin, English philologist, XV. 724.

*Thorpe*, T. B. (Thomas Bangs, born 1815, author and painter, of New Orleans and New York), referred to, XVI. 197, 1 ab.

*Thorvald* [tor'-völd], Norse navigator, XII. 498, 1 b.

THORWALDSEN, Bertel [tor'-vål-zen], Danish sculptor, XV. 724.

*Thot*, *the*, of the gypsies, X. 846, 2 a.

*Thoth*, Egyptian deity, V. 612, 2 c (ill.); XII. 116, 2 c. His identity with Hermes, VIII. 684, 2 bc.

*Thothmesium*, ruins of the, XV. 688, 1 bc.

THOT, Jacques Auguste de [däh too], French historian, XV. 725. François Auguste, 2 a.

THOUAËS: see DU PETIT-THOUAËS.

*Thought not instantaneous*, VIII. 623, 1 c.

*Thous* (zoölogy), VI. 179, 1 c, 2 a.

"*Thousand and One Nights*," I. 624, 1 a.

*Thoyras*, *sieur de* [twá-rá]: see RAPIN.

THRACE, in ancient geography, XV. 725.

THRALE: see Ptozzi (Index).

*Thrasaetus harpyia* [thra-sa-ē'-tus har'-pe-ya], (ornithology), VIII. 475, 1 a (ill.).

THRASHER: see THRUSH, XV. 729, 1 a (ill., 728).

*Thrasher* (grampus), VIII. 147, 1 b.

THRASYBULUS, Athenian general, XV. 726; VIII. 195, 1 c.

*Thrasylus*: see *Cynossema* (Index).

THRASYME'NUS, Lake: see PERUGIA, and HANNIBAL, VIII. 443, 1 a.

*Thread*, of a screw, XIV. 712, 2 a.

THREAD WORM: see ENTOMOZOA, VI. 670, 1 a; I. 804, 1 a.

THREATENING LETTERS, XV. 726.

"Three chapters:" see MONOPHYSITES, XI. 757, 2 ab, and V. 278, 1 a.

*Three-handed game*, in billiards, II. 642, 2 c.

*Three per cents*: see CONSOLS.

THREE RIVERS, city of Canada, XV. 726.

*Three sisters*, rivers of Ireland, II. 340, 1 b.

"Three towns," *the*, XIII. 624, 2 c (PLYMOUTH).

THRESHER: see SHARK, XIV. 829, 2 a.

THRESHING MACHINE, XV. 726 (ill., 727).

THROCKMORTON, county, XV. 727.

THROCKMORTON, Sir Nicholas, English statesman, XV. 727.

THROMBO'SIS: see BRAIN, Diseases of the, III. 198, 2 a. Thrombus, *ib.*

*Thronateeska*: see FLINT RIVER.

*Throndhjem* [trond'-yem]: see DRONTHEIM.

*Throstle*, XV. 728, 2 b (THRUSH).

*Throstle machine*, in cotton spinning, V. 414, 1 c.

*Throwing*, in pugilism, XIV. 76, 2 c.

*Throwing*, in silk manufacture, XV. 42, 1 a. Of pottery, XIII. 787, 2 c.

*Throwing wheel*, potter's, XIII. 787, 2 ab.

*Thrown singles*, XV. 42, 1 ab (SILK).

THRUSH, bird, XV. 727. Wood thrush, 728, 1 a (ill.); missel, 1 c; song, 2 b (ill.); brown, or thrasher, 729, 1 a (ill., 728); water, 1 b. European thrush, XII. 745, 1 b. Golden-crowned, 2 a.

*Thryothorus Ludovicianus* (ornithology), XVI. 735, 1 c.

THUANUS: see THOU, Jacques Auguste de.

THUCYDIDES [thn-sid'-e-deez], Greek historian, XV. 729; VIII. 214, 1 b.

*Thucydides*, Greek statesman, XIII. 292, 2 a.

*Thud geyser*, Wyoming, VII. 786, 1 c (ill.).

*Thuggee*: see THUGS.

THUGS, sect of assassins, XV. 729.

*Thuisco* [too-is'-ko]: see TUISCO.

*Thuja* (botany), I. 638, 1 b; XI. 839, 2 b (T. articulata). Referred to, X. 401, 1 c; T.

*gigantea*, 2 ab. T. occidentalis, I. 638, 2 a (ill.); plicata, *ib.*

THU'LE, in ancient geography, XV. 730; XIV. 852, 2 bc; VII. 683, 2 a, 684, 1 c.

*Thumb*, Gen. Tom, dwarf, VI. 336, 1 bc.

THUN [toon], town of Switzerland, XV. 730. Lake, 1 b.

THUNBERG, Carl Peter [toon'-bäirg], Swedish botanist, XV. 730.

THUNDER: see LIGHTNING.

*Thunder bay*, in Lake Huron, IX. 78, 2 b.

*Thunderer*, *the*, epithet of Jupiter, IX. 718, 2 c.

*Thunderer*, *the*, sobriquet of the London Times, V. 767, 2 bc (DELANE).

*Thundering legion*, Roman, I. 574, 2 c.

*Thunder snake*, IV. 225, 2 b.

*Thunder stone*, II. 485, 1 bc (BELEMNITES).

THURGAU [toor'-gow], Swiss canton, XV. 730.

*Thurible*, IV. 190, 2 c (CENSER).

*Thurgau* [too'-re-gow], XV. 529, 2 a (SWITZERLAND).

*Thüringen* [tü'-ring-en]: see THURINGIA.

THURINGIA, region of Germany, XV. 730. Thüringian Forest, 2 c.

THURLOE, John, English statesman, XV. 731.

THURLOW, Edward, lord, statesman, XV. 731. Edward Hovell-Thurlow, lord, writer, 1 c.

THURN AND TAXIS [toorn]: see POST, XIII. 748, 1 b.

*Thuro*, in Phœnician mythology, XII. 118, 1 c.

*Thurr* [t'hür or tür], desert in India, IX. 200, 2 b.

THURSDAY, XV. 731.

THURSTON, county, XV. 731.

*Thysel'da*, wife of Arminius, I. 729, 2 b; 730, 1 a.

*Thy'amis*, river of Epirus, IX. 526, 1 ab.

*Thyati'ra*: see AKHISSAR.

THYESTES: see ATREUS.

THYLACINE [thi'-la-sin], marsupial animal, XV. 731 (ill.); 578, 2 c.

*Thylacinus* (zoology), XV. 731, 2 b. T. Harriessii, 732, 1 a (ill., 731).

*Thylacotherium* (palæontology), XV. 732, 1 b; XII. 111, 1 b.

*Thymallus* (ichthyology), VIII. 181, 1 bc. T. vulgaris, 1 b; vexillifer and gymnothorax, 2 ab; signifer, 2 c (ill.).

THYME [time], plant, XV. 732. Wild or creeping, 1 c (ill.); garden, *ib.*; lemon, 2 a.

*Thymic asthma*, V. 518, 2 bc.

*Thymus* (botany), XV. 732, 1 c. T. serpyllum, *ib.* (ill.); vulgaris, 1 c, XI. 174, 2 c; citriodorus, XV. 732, 2 b.

THYMUS GLAND (anatomy), XV. 732 (ill.).

*Thynnus* (ichthyology), XVI. 39, 2 bc. *T. vulgaris*, 2 c; secundo-dorsalis, 40, 1 a (ill.); pelamys, III. 68, 1 a (ill.).

*Thyra*, Danish princess, betrothed of Prince Arthur of England, IV. 529, 1 c.

THYROID GLAND (anatomy), XV. 733.

*Thyrosternum Pennsylvanicum* (zoölogy), XV. 811, 1 b.

*Thyrsus*, Bacchanalian wand, II. 193, 2 a.

TIAGUANACO [te-a-gwá'-na-ko]: see TITICACA, and I. 399, 2 a, ff.; X. 159, 1 a.

*Tiahuanaco*: see TIAGUANACO (Index).

TIA'RA, XV. 733 (ills.).

*Tiaropsis* (zoölogy), IX. 602, 1 ab.

*Tiars*, a class of Hindoos, XI. 47, 2 ab, bc.

TIBALDI, Pellegrino [te-bál'-de], Italian artist, XV. 734.

*Tibarenti*, ancient people, IX. 566, 2 c.

TIBOOS: see TUARIKS, XVI. 21, 2 a, and VII. 172, 1 c.

TIBER, river of Italy, XV. 734.

TIBERIAS: see GENNESARET.

*Ti'beris*: see TIDER.

TIBERIUS, emperor of Rome, XV. 734.

*Tiberius Apsimerus*, usurper, IX. 728, 2 a.

TIBET: see THIBET.

*Tibials*, in plumage, VII. 105, 2 c.

*Tibia utricularis*, bagpipe, II. 217, 1 a.

*Tibiscus*: see THEISS.

TIBULLUS, Albius, Roman poet, XV. 735; IX. 195, 2 c.

TIBUR: see TIVOLI.

*Tical* [tē'-cal], Siamese coin, XV. 12, 2 a.

TIC DOULOUREUX: see NEURALGIA, XII. 257, 2 b.

TICBORNE TRIAL [tich'-burn], XV. 735.

TICINO [te-chē'-no], canton of Switzerland, XV. 736. River, 2 c.

*Ticinum*, ancient city, XIII. 194, 1 b, 2 c.

*Ticinus*, river, XV. 736, 2 c. Battle of the, IV. 142, 2 bc; VIII. 442, 2 c.

TICK, insect, XV. 737; VI. 695, 1 c.

TICKELL, Thomas, English poet, XV. 737.

TICKNOR, George, American author, XV. 737.

TICONDEROGA, town of New York, XV. 737.

Fort, 2 c. Capture of, by Allen, 738, 1 b; I. 328, 2 c. Ruins of, VII. 713, 1 a.

*Tic polonga*, snake, IX. 204, 1 c.

*Ticuna* [te-koo'-na]: see WOORARA.

*Tidal*, Turanian chief, IV. 230, 2 ab; VI. 485, 2 ab.

TIDES, XV. 738. Relation of tides to the moon's phases, 2 a, ff. Establishment of the port, 2 ab; of the place, 740, 1 b. Spring and neap tides, 738, 2 bc; 740, 1 bc. Causes of, 739, 1 bc.

Variations in, 740, 1 bc; semi-diurnal tides, *ib.*, 2 c; diurnal inequality, 2 b; retard or age of the tide, 741, 1 b; luni-tidal interval, *ib.*; half monthly inequality in time, 2 bc. Motion of water in tide waves, 2 a. Tides in inland seas, 742, 2 b. Complications of, 2 c. On the coasts of the United States, 743, 1 bc; tide tables, 744, 2 a; co-tidal lines, 746, 1 a. On the British coasts, 1 b; in Bristol channel, III. 292, 2 b. Influence of tidal currents on the entrances of bays, &c., XV. 746, 1 b; hydraulic system of New York harbor, 2 b; "tide prism," 747, 2 a. "Single day tide," 744, 1 b.—In the bay of Fundy, VII. 527, 2 c. Method of utilizing the force of the tide, XIV. 226, 2 a. See COAST SURVEY, IV. 761, 2 b. Effect of the earth's rigidity on the ocean tides, VI. 490, 1 a. Influence of, on earth's temperature, XI. 433, 2 c.

*Tie beam*, of a roof, XIV. 421, 1 ab.

TIECK, Ludwig [teek], German author, XV. 747; VII. 768, 1 c. Christian Friedrich, sculptor, XV. 748, 1 ab.

TIEDEMANN, Dietrich [tē'-dēh-mán], German philosopher, XV. 748. Friedrich, physiologist, 1 c.

TIEDGE, Christoph August [teed'-gēh], German poet, XV. 748.

*Tiefenau*, battle field of [tē'-feh-now], VII. 197, 2 c.

TIENTSIN [te-en-tseen'], town of China, XV. 748. Treaties of, 2 c; XIII. 233, 2 c. Massacre of, IV. 464, 2 bc.

*Tierce* [teerce], in fencing, VII. 120, 2 b.

*Tiermes* [teer'-mess], Lapp deity, X. 164, 2 bc.

TIERRA DEL FUEGO [te-āir'-ra del fwā'-go], group of islands, XV. 748.

*Tiers-argent* [Fr. tyāir-zar-zhā'"], alloy, I. 368, 2 b (ALUMINUM); XII. 432, 2 a (NICKEL).

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**TORLONIA**, Alessandro, prince, Italian capitalist, XV. 800.  
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*Tormodus*: see **TORFÆUS**.  
**TORNA** [tor'-naw], county of Hungary, XV. 800.  
*Tornacum*: see **TOURNAY**, XV. 824, 2 c.  
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**TORNEA** (Swed. *Torneå*, tor'-nëb-o), river, XV. 800. Town of Finland, 1 c.  
*Torngak*, Esquimaux deity, VI. 729, 2 bc.  
**TO'BONTÁL**, county of Hungary, XV. 800.  
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**TORPEDO**, genus of fishes, XV. 802. Electrical apparatus, 1 b. Of the Mediterranean, 1 c. American, 2 a (ill.). Early knowledge of its electric power, VI. 500, 2 b.  
**TORPEDO**, submarine instrument of destruction, XV. 802. Experiments of Fulton, Colt, and others, 803, 1 a, ff. Use of in the late civil war, 2 b. Schools for investigating submarine warfare, 804, 1 a. System of coast defence, 1 b; Austrian, 1 c (ill.). Offensive torpedoes, 805; Wood and Lay's, Whitehead's, Harvey's, 805, 1 a-c (ills.). Submarine rockets, 2 a, and torpedo boats, 2 b; Ericsson's modification of, 806, 1 a.  
**TORQUATUS**, Titus Manlius Imperiosus, hero of Roman story, XV. 806.  
**TORQUAY** [tor-ké'], town of England, XV. 806.  
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**TORQUEMA'DA**, Juan de [Sp. tore-kā-má'-tāa], Spanish theologian, XV. 806.  
**TORQUEMADA**, Tomas de, first Spanish inquisitor general, XV. 806; IX. 294, 2 b. His zeal restrained by the pope, XV. 807, 1 a.  
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*Torre de Belem* [dā bā-le<sup>er</sup>], II. 484, 1 b (ill.).  
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*Torre del Greco*, coral fishery of, V. 342, 2 a.  
*Torre dell' orologio*, of Venice, XVI. 298, 1 c.  
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*Torre di fame* [de fā'-mā] (tower of hunger), VII. 792, 1 c.  
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**TORSTENSON**, Lennart, count of Ortala, Swedish general, XV. 808. See **CHRISTINA**, queen of Sweden, and **THIRTY YEARS' WAR**.  
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*TORTO'LA*, West Indian island, XV. 813.

*TORTOSA*, city of Spain, XV. 814.

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*TORTUGAS* [tor-too'-gáss], island of the West Indies, XV. 814. See *DRY TORTUGAS*, and *FLORIDA*, VII. 280, 1 ab, b.

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*Torus*, of plants, XIII. 586, 1 a. In architecture, I. 657, 1 c.

*TORY*: see *WHIG AND TORY*. Long ascendancy of the tories, VII. 708, 1 b.

*Tosaphoth*, in Jewish literature, VIII. 596, 1 a; XV. 560, 2 c.

*Tosca*, substance of obstructions in the Plata, XIII. 597, 1 ab.

*Toscana* [tos-ká'-na]: see *TUSCANY*.

*Toscanelli*, Paolo, cosmographer, encouragement of Columbus by, V. 126, 1 ab.

*TOSCHI*, Paolo [tos'-ke], Italian engraver, XV. 815; VI. 649, 2 a.

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*TOTTENVILLE*, Staten Island, XV. 323, 2 b (twice).

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*Tou'CAN*, bird, XV. 819. Toucans proper, 820, 1 b. Toco toucan, *ib.*; yellow-breasted, 1 bc; aracari, 2 a; yellow, *ib.* (ill.).

*TOUCH*, sense of feeling, XV. 820. Relative acuteness at different points, 2 bc. Effect of cold and heat, 821, 1 a; of other agencies, 1 b; of cultivation, 1 bc. In the lower animals, 1 c.

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*TOUL* [tool], town of France, XV. 821.

*TOULMIN*, Camilla [tool'-min]: see *CROSLAND*'.

*TOULMIN*, Joshua, English clergyman, XV. 821.

*TOULON* [too-ló<sup>ne</sup>], seaport of France, XV. 821 (view, 822).

*Toulon* [too'-lon], county seat, XV. 322, 1 ab.

*TOULOUSE* [too-looz], city of France, XV. 822.

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*TOURAINÉ*, old province of France, XV. 823.

*Tour brune*, la [ã toor brün], VI. 560, 1 b.

*TOURCOING* [toor-kwä<sup>ne</sup>], town of France, XV. 823.

*Tour de la Pucelle*, V. 189, 2 ab.

*TOURMALINE* [toor'-ma-lin], mineral, XV. 823.

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*TOURNAY*, town of Belgium, XV. 824.

*TOURNEFORT*, Joseph Pitton de [toor-nüh-for], French botanist, XV. 825.

*Touro*, Judah, Jewish philanthropist (1775-1854, merchant of New Orleans, born in Newport), XII. 327, 2 a; 330, 1 bc; IX. 617, 2 c.

*Tours* [toor], city of France, XV. 825.

*TOURVILLE*, Anne Hilarion de Cotentin, count de [toor-veel], French admiral, XV. 825.

*Tous les mois* [too lã mwã], a starch, XV. 317, 2 c.

*TOUSSAINT*, François Dominique, surnamed L'Ouverture [too-sã<sup>ne</sup> loo-vãir-tür], Haytian general, XV. 825. Made president for life, 826, 1 c. Treacherously seized and conveyed to France, 2 bc. Imprisonment, barbarous treatment, and death, 2 c.

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*Trem'olite*, VIII. 821, 1 b (HORNBLÉNDE).

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*Yulan*, tree (magnolia), XI. 20, 2 c.  
YULE, Henry, English author, XVI. 800.  
*Yule log, or Christmas block*, IV. 551, 2 b.  
YUMA [yoo'-ma], county, XVI. 800.  
Yuma, county seat, XVI. 801, 1 a.  
*Yumala, Yumara*, Finnish deity, VII. 206, 1 bc.  
YUMAS, American Indians, XVI. 801.  
*Yumula*: see *Yumala* (Index).  
Yuncas [yoon'-kās], people of Peru, XIII. 341, 2 b; XIV. 150, 2 a.  
YUNNAN', province of China, XVI. 801. English expeditions to, 2 b.  
*Yunx torquilla* (ornithology), XVI. 741, 1 c (ill.).  
*Yusuf* [yoo'-soof], (Joseph), son of Abdul-Aziz, I. 16, 2 a.  
*Yusuf I.*, king of Granada (1333-'54), referred to, I. 310, 1 a.  
*Yusuf el-Feri*, emir, I. 14, 2 a.  
*Yusuf ibn Tashfyn*, founder of Morocco, and of the Almoravide dynasty in Spain, I. 345, 2 bc.  
YVERDUN, or Yverdon [e-vāir-dū<sup>re</sup>, -dō<sup>re</sup>], town of Switzerland, XVI. 801.  
YVON, Adolphe [e-vō<sup>re</sup>], French painter, XVI. 801.

## Z

Z, a letter, XVI. 802. Sounds of in different languages, 1 ab. As a numeral, *ib.*  
*Zaandam* [zân'-dam]: see SAARDAM.  
ZACAPA [sâ-kâ'-pa], town of Guatemala, XVI. 802.  
ZACATECAS [sâ-ka-tâ'-kâss], state of Mexico, XVI. 802. Capital city, 2 b.  
*Zaccaria* [dzâk-ka-rē'-a], a founder of the Barabites, II. 318, 2 c.  
ZACH, Franz [tsâ'h], German astronomer, XVI. 802. Baron Anton, 2 c.  
*Zachariah*: see ZACHARIAH.  
"Zachary Boyd's Bible," III. 172, 1 ab.  
*Zachos steno-phonotype reporter*, XVI. 96, 2 b.  
ZACYNTHUS: see ZANTE.  
*Zadhurmuz* [zâd-hoor'-mooz], leader of a Manichæan sect, XI. 108, 1 c.

ZAFFRE: see COBALT, IV. 767, 1 c.  
ZAGAZIG, town of Egypt, XVI. 802.  
ZAGOS'KIN, Mikhail, Russian author, XVI. 803.  
*Zagreus Dionysus* [zâ'-gruce], in the Orphic cosmogony, XII. 711, 1 b.  
ZA'GROS, mountain range, XVI. 803; XIII. 315, 1 a.  
ZAHN, Johann Karl Wilhelm [tsân], German architect and painter, XVI. 803.  
ZAIRE: see CONGO, V. 241, 2 b.  
ZALA [zol'-aw], county of Hungary, XVI. 803.  
*Zalaca, battle of* [thâ-lâ'-ka], I. 345, 2 c.  
ZALEUCUS, Loerian lawgiver, XVI. 803.  
ZA'MA, town of Numidia, XVI. 803. Battle of, VIII. 444, 1 ab.  
ZAMACOIS, Eduardo [thâ-ma-ko'-eece or -koi's], Spanish painter, XVI. 803.

- Zamarra* [thá-már'-ra], death costume of victims of the inquisition, IX. 295, 1 b.
- ZAMBESI* [zam-bá'-ze], river of Africa, XVI. 803; I. 166, 1 c.
- Zambos*, half-breeds, XII. 424, 1 ab.
- ZAMOJSKI*, Jan [zá-moi'-ske], Polish statesman, XVI. 804. Andrzej, count, statesman, 1 c.
- ZAMOREA* [thá-mo'-ra], province of Spain, XVI. 804. Capital city, 2 b.
- Zamora* [sá-mo'-ra], original name of Maracaybo, XI. 142, 1 c. (Present name of the former state of Barinas, Venezuela.)
- ZAMORA*, Antonio de, Spanish dramatist, XVI. 804.
- Zamorin*, rajah of Calicut, VII. 605, 1 a, c.
- Zamoyski*: see *ZAMOJSKI*.
- ZAMPIERI* [dzám-pyá'-re]: see *DOMENICHINO*.
- ZANOLE* [zan'-klē]: see *MESSINA*, XI. 418, 1 bc; VIII. 733, 2 c.
- ZANESVILLE*, city of Ohio, XVI. 804.
- ZANGUEBAR*: see *ZANZIBAR*.
- Zanta*, lake of, XIV. 725, 1 b.
- ZAN'TE*, Grecian nomarchy, XVI. 805. Island, 1 c. "Zante currants," *ib.* Capital city, 2 a.
- Zany*, harlequin, VIII. 463, 1 c.
- ZANZIBAR*, country of Africa, XVI. 805. Island, 806, 1 b. City, 1 c.
- ZAPATA* [sá-pá'-ta], county, XVI. 806.
- ZÁPOLYA* [zá-po-lyaw]: see *HUNGARY*, IX. 57, 2 a, ab; *AUSTRIA*, II. 144, 1 b; *FERDINAND*, VII. 132, 2 b.
- Zaporogians*, Cossack tribe, V. 391, 2 a.
- Zaqui* [sá'-ke], a regal title, XII. 107, 2 ab.
- ZARA* [zá'-ra], capital of Dalmatia, XVI. 806.
- ZARÁND* [zor'-ánd], county of Hungary, XVI. 806.
- Zarias'pe*, capital of Bactria, II. 208, 1 bc.
- ZAUSCHNE'RIA* (botany), XVI. 807. *Z. Californica*, 1 ab (ill.).
- ZAVALA* [sá-vá'-la], county, XVI. 807.
- Zax*: see *SLATE*, XV. 88, 1 c.
- Zaylah*: see *ZEILAH*.
- ZE'A*, island of Greece, XVI. 807.
- ZEALAND*, province of the Netherlands, XVI. 807.
- Ze'a mays* (botany), XI. 42, 1 ab. *Z. cryptosperma*, 2 c.
- ZEBRA*, animal, XVI. 807 (ill.).
- ZEBU*, Indian ox, XVI. 808 (ill.).
- ZEBÚ ISLAND*: see *CERF*.
- Zebulon*, county seat, XIII. 511, 1 c.
- ZEBULON*, son of Jacob, XVI. 808.
- ZEOHARIAH*, Hebrew prophet, XVI. 808.
- ZEDEKIAH*: see *HEBREW*, VIII. 589, 2 b.
- ZEELAND* [zā'-lánd]: see *ZEALAND*.
- ZEILAH* [zā'-lá], Egyptian seaport, XVI. 808.
- ZEISBERGER*, David [tsice'-bair'-gher], Moravian missionary, XVI. 809.
- ZERTZ* [tsits], town of Prussia, XVI. 809.
- ZELLE*: see *CELLE*.
- ZELLER*, Eduard [tsel'-ler], German scholar, XVI. 809.
- ZELLER*, Jules Silvain [zel-láir], French historian, XVI. 809.
- ZELTER*, Karl Friedrich [tsel'-ter], German composer, XVI. 810.
- Zemaun*, sovereign of Afghanistan, I. 161, 1 a; VIII. 675, 1 a.
- Zem'indary*, a land revenue system in India, IX. 205, 2 c. Zemindars, landholders, *ib.*; II. 525, 1 c.
- ZEMPLÉN*, or Zemplin [zem'-plain, -pleen], county of Hungary, XVI. 810.
- Zem-zem*, holy well: see *MECCA*, and I. 6, 2 c.
- Zenai'da* (ornithology), XIII. 506, 1 c. *Z. amabilis*, *ib.*
- ZENAIDA DOVE*: see *PIGEON*, XIII. 506, 1 c.
- Zenaidura Carolinensis* (ornithology), XVI. 82, 1 c (ill.).
- ZEND-AVESTA*, the Zoroastrian scriptures, XVI. 810. *Zend*, 1 c; 811, 1 a. *Avesta*, 810, 2 a; age and place of origin, 1 c. Zoroastrian literature, 811, 1 ab. Sanskrit version of, 1 b. Its difficulties, 1 bc.
- ZEND LANGUAGE*: see *ZEND-AVESTA*. Restoration of by Burnouf, III. 472, 1 b.
- ZE'NICK*: see *SUBICATE*.
- ZENITH*, XVI. 811. Zenith sector, VI. 356, 2 a.
- ZENO*, of Elea, Greek philosopher, XVI. 811; XIII. 437, 1 b.
- ZENO*, Greek philosopher, XVI. 811; XI. 809, 2 b, c; XIII. 438, 2 b.
- ZENO*, emperor of the East, XVI. 811.
- ZENO*, Apostolo [dzá'-no], Italian poet, XVI. 812.
- ZENO*, Nicolò and Antonio, Italian navigators, XVI. 812.
- ZENOBIA*, Septimia, queen of Palmyra, XVI. 812; XIII. 28, 1 c. See *AURELIAN*, II. 119, 2 ab.
- ZEOLITE*, mineral, XVI. 813; XV. 39, 1 c.
- ZEPHANIAH*, Hebrew prophet, XVI. 813.
- Zephyria*: see *HALICARNASSUS*.
- Zerah*, of Scripture, VI. 749, 2 ab.
- ZERAM*: see *CERAM*.
- ZERBST* [tsáirpst], town of Germany, XVI. 813.
- Zerda*, African animal, VII. 131, 1 c.
- Zereides*, Moorish dynasty, I. 304, 1 c.

*Zerhazy* [zäir'-há-ze]: see *ESTERHÁZY*.

*Zeta*, early name of Montenegro, XI. 780, 1 c.

*ZETLAND*: see *SHETLAND ISLANDS*.

*ZETTERSTEDT*, Johan Wilhelm, Swedish naturalist, XVI. 813.

*ZETTINIE*, or *Zettinje*: see *CETTIGNE*.

*Zeugitana*, ancient district, Africa, XVI. 31, 1 c.

*ZEUGLONON*, fossil animal, XVI. 813.

*ZEUS* [zuce]: see *JUPITER*. *Zeus Ammon*, I. 426, 1 c. *Zeus Canobus*, III. 720, 1 ab.

*Ze'us*, genus of fishes, VI. 219, 1 a. *Z. faber* (ill.), *ib.*; *ocellatus*, 2 bc.

*Zeus Panhellenius*, temple of, I. 140, 2 c.

*ZEUXIS*, Greek painter, XVI. 814.

*Zeuzeradæ* (entomology), XI. 869, 2 ab.

*ZHITOMIR* [zhe-tó'-mer], town of Russia, XVI. 814.

*Zho*, hybrid animal, X. 88, 2 b.

*ZHUKOFFSKI*, Vasili, Russian poet, XVI. 815.

*Zhukovsky*, I. 284, 1 a. See *ZHUKOFFSKI*.

*Zhupan*, Servian chief, XIV. 781, 2 b.

*Ziani*, *Sebastiano* [dze-á'-ne], doge of Venice, VI. 182, 2 ab. Marriage of the Adriatic instituted by him, 2 b; III. 376, 2 ab.

*Zianides* [ze-an'-idz], dynasty of Fez, I. 304, 1 c.

*ZIB'ETH*: see *CIVET*, IV. 617, 2 b.

*ZIDON*: see *SIDON*.

*ZIEM*, Félix [zyä'e], French painter, XVI. 815.

*ZIETHEN*, Hans Ernst Karl, count [tsē'-ten], Prussian soldier, XVI. 815.

*ZIETHEN*, Hans Joachim von, Prussian soldier, XVI. 815.

*Zimmermann* [tsim'-mer-mán], chemist, on coagulation of blood, II. 733, 2 c; on the presence of ammonia, 734, 1 a.

*ZIMMERMANN*, Albert, German painter, XVI. 815.

*ZIMMERMANN*, Clemens von, painter, XVI. 815.

*ZIMMERMANN*, Johann Georg von, Swiss physician and author, XVI. 815.

*ZINC*, metal, XVI. 816. Alloys of, 817, 1 b. Uses of, 1 c. Compounds, 2 bc; butter of,

818, 1 a. History, 2 bc. Metallurgy, 820,

1 b; manufacture of, 1 c; Hasenclever furnace, 821, 1 b (ill.); English method, 822,

1 b; Silesian and Belgian, 1 c; Belgian furnace, 823, 2 a (ill.); in the United States,

824, 1 bc. Zinc white, or oxide of zinc,

826, 1 a; formation of, XIV. 584, 2 bc.

Chloride of, use as a disinfectant, VI. 134,

1 bc; in arresting dry rot in timber, *ib.*,

and XIII. 825, 1 bc.

*Zincic acetate*, XVI. 818, 2 bc; chloride, 1 a; sulphate, 1 c.

*Zincite*, ore, XVI. 820, 1 bc.

*ZINGARELLI*, Nicolò, Italian composer, XVI. 826.

*Zingian dialect* (African), I. 171, 1 bc.

*Zin'giber officina'le* (botany), VII. 814, 1 c (ill.).

*ZINGIA KHAN*: see *GENGHIS KHAN*.

*Zinguebar*: see *ZANZIBAR*.

*ZINIA*, genus of plants, XVI. 826. *Z. elegans*, 827, 1 a (ills.). Other species, 2 a.

*ZINZENDORF*, Nikolaus Ludwig, count [tsin'-tsen-dorf], Moravian bishop, XVI. 827.

Count Christian Renatus, 828, 1 bc.

*ZION*, Mount, XVI. 828.

*Zipa* [sē'-pa], Muysca title, XII. 107, 2 ab.

*ZIPS* [tips], county of Hungary, XVI. 828.

*Zircon*, mineral, V. 538, 2 c. See *ZIRCONIUM*.

*Zirconia*, XVI. 829, 1 b (*ZIRCONIUM*).

*ZIRCONIUM*, metal, XVI. 828.

*ZISKA*, John, Hussite military leader, XVI. 829.

*ZITTAU* [tsit'-tow], town of Saxony, XVI. 830.

*Ziu* [tsē'-oo], Swabian god, XII. 120, 1 c.

*Zizania aquatica* (botany), XIV. 310, 1 b (ill.). *Z. miliacea*, 2 b.

*Zizim* [ze-zeem'], brother of Bajazet II., II. 101, 1 a; 227, 2 b.

*Zizka*: see *ZISKA*.

*Zizyphus* (botany), IX. 709, 1 b. *Z. vulgaris*, *ib.* (ill.); *jujuba*, 2 b; *lotus*, *ib.*; *Baclei*, *ib.*

*Zlaam*, class of Druses, VI. 274, 2 a.

*ZNAYM* [tsnime], city of Moravia, XVI. 830.

*Zoantho'ria*, I. 74, 2 a (*ACTINIA*).

*ZOAR*, village of Ohio, XVI. 830. *Zoar society*, 2 b; XV. 140, 2 b.

*Zo'ar*, village of Palestine, X. 645, 2 ab.

*Zoar'ees* (ichthyology), II. 710, 2 ab. *Z. viviparus* and *anguillaris*, 2 b.

*ZODIAC* (astronomy), XVI. 830.

*Zodiac of Denderah*, VI. 7, 2 a; X. 373, 2 c. Of Esne, *ib.*; VI. 728, 1 a.

*ZODIACAL LIGHT*, XVI. 831.

*Zoë'a*, young crab, V. 449, 1 a. *Zoëa stage*, *ib.*

*Zoëga*, Georg [zo-ä'-ga], Danish antiquary, XVI. 832.

*Zohak*, castle of, ruins, II. 262, 2 b.

*Zohrab*, Armenian Biblical scholar, I. 727, 1 c.

*Zo'ILUS*, ancient critic, XVI. 833.

*Zollern*: see *HONENZOLLEEN*.

*ZOLLVEREIN* [tsul'-fer-ine], German customs union, XVI. 833; VII. 748, 1 c, 754, 2 c, 755, 2 b, 758, 1 b, 759, 1 c.

*ZÓLYOM* [zo'-lyom], county of Hungary, XVI. 833.

*ZOMNOR*, city of Hungary, XVI. 833.

*ZONARAS*, Joannes, Byzantine historian, XVI. 833.

*ZONE*, geographical, XVI. 834.

- Zonotrichia* [zo-no-trik'-e-a], (ornithology), VII. 191, 2 b. *Z. graminea*, 2 bc; *Lincolnii*, 192, 1 a (ill.); *leucophrys*, XV. 229, 1 bc (ill.).
- Zoögraphy* [zo-og'-ra-fe], a description of animals, I. 510, 2 c.
- ZOÖLOGY, scientific study of the animal kingdom, XVI. 834; I. 510, 2 c.
- ZOOLOOS, South African nation, XVI. 834 (ill., III. 546); XII. 156, 1 c.
- Zoönomý*, comparative physiology, I. 510, 2 c.
- Zoöph'ytá helianthoi'dea*, I. 74, 2 a (ACTINIA).
- ZOÖPHYTES (zoölogy), XVI. 834; I. 510, 1 b; V. 339, 2 a; XIII. 689, 1 c.
- Zoöspore*, spore of algæ, I. 300, 1 c.
- Zoöthome*, V. 339, 2 a (CORAL).
- Zoötomy*, comparative anatomy, I. 510, 2 c.
- ZORNDORF [tsorn'-dorf], (village near Küstrin), battle of, VII. 457, 1 b.
- ZOROASTER [zo-ro-as'-ter], founder of the ancient Persian religion, XVI. 834; IX. 346, 1 c, 2 a. Modern followers of: see GUEBRES, and PARSEES. Zoroastrian literature: see ZEND-AVESTA.
- ZORRILLA Y MORAL, José [thore-ré'-lyá e mor-ál'], Spanish poet, XVI. 835.
- ZOSIMUS, Greek historian, XVI. 835.
- Zos'tera* (botany), XVI. 733, 1 b. *Z. nana*, 1 c; *marina*, 1 a (ill.), III. 733, 1 bc; *vallisneria*, *ib.*
- ZOUAVES [zwävz], in the French army, XVI. 835. In the United States army, 2 bc.
- Zozo'ro*, plant, X. 810, 1 b.
- ZRINYI, Miklós, count [zrin'-ye], Hungarian soldier, XVI. 835.
- ZSCHOKKE, Johann Heinrich Daniel [tshük'-këh], German author, XVI. 836.
- ZUCCARELLI, Francesco [dzook-ka-rel'-le], Italian painter, XVI. 836.
- ZUCCARO, Taddeo [dzook-ká'-ro], Italian painter, XVI. 836. Federico, painter, 2 c.
- ZUG [tsoog or tsoo'h], Swiss canton, XVI. 837. Lake of, 1 b. Capital, 1 c. Derivation of the name, XV. 529, 1 b.
- ZUIDER ZEE: see ZUYDER ZEE.
- ZUINGLIUS: see ZWINGLI.
- Zulu dialect* [zoo-loo'], I. 171, 1 c. See ZOOLOOS.
- ZUMBUSCH, Kaspar [tsoom'-boosh], German sculptor, XVI. 837.
- ZUMPT, Karl Gottlob [tsoompt], German scholar, XVI. 837. August Wilhelm, 2 ab.
- ZUÑIGA: see ERCILLA Y ZUÑIGA.
- Zunu breed of sheep* [zoo-noo'], XIV. 837, 2 b.
- ZUNZ, Leopold [tsoonts], German Hebraist, XVI. 837.
- ZURBARAN, Francisco [thoor-bâ-rân'], Spanish painter, XVI. 837.
- ZÜRICH [zu'-rik; Ger. tsü'-rifh], Swiss canton, XVI. 838. Capital city, 1 c. Derivation of the name, XV. 529, 1 b.
- ZÜRICH, Lake of, XVI. 838.
- ZURITA, Gerónimo [thoo'-re-ta], Spanish historian, XVI. 838; XV. 221, 1 c.
- ZUT'PHEN, city of the Netherlands, XVI. 839. Battle of, 1 b.
- Zutugil nation* [thoo-too'-heel'], referred to, XIV. 149, 2 bc.
- ZUYDER ZEE [zoi'-der zā], bay or gulf of Holland, XVI. 839.
- Zuzims*, VIII. 816, 2 b (HORITES).
- ZWEIBÜCKEN [tswi'-brük-ken], city of Bavaria, XVI. 839. County, 2 c; duchy, *ib.*
- ZWICKAU [tswik'-kow], city of Saxony, XVI. 840.
- ZWINGLI, Ulric or Huldreich [tswin'-glē], Swiss reformer and patriot, XVI. 840. His view of the sacrament, X. 639, 1 b.
- ZWIRNER, Ernst Friedrich [tsweer'-ner], German architect, XVI. 843.
- ZWOLLE [zwöl'-lēh], city of the Netherlands, XVI. 843.
- Zygæ'na* (ichthyology), XIV. 830, 1 b. *Z. malleus*, *ib.* (ill.).
- Zygænidæ* (ichthyology), XIV. 830, 1 a.
- Zygapoph'ysis* (anatomy), XIII. 424, 2 c (ill.).
- Zygne'ma* (botany), XIII. 574, 1 b (ill.).
- Zygob'atis* (ichthyology), XIV. 223, 1 c.
- ZYMO'SIS, in pathology, XVI. 843.
- Zymot'ic diseases*, VII. 165, 2 c; XV. 152, 1 c. See ZYMOSIS.











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